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ORIGINAL

NIOSH

PROGRAM PLAN

Fiscal Year 1982

by program areas

83-4

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U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
Centers for Disease Control
National Institute for Occupational Safety and Health

HE20.7121 :982

PROGRAM OF THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH

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Program Plan by Program Area for FY 1982

DHHS (NIOSH) Publication No. 82-108

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
Centers for Disease Control
National Institute for Occupational Safety and Health

December 1981

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PREFACE

"In the future the worksite should draw more and more attention as the most logical setting for our prevention efforts."

Richard S. Schweiker
Secretary of Health and Human Services
Conference on Alcohol, Drug Abuse, and Mental Health Promotion/Prevention at the Workplace
June 17, 1981

A striking similarity in the names of the National Institute for Occupational Safety and Health and its parent agency, the Centers for Disease Control (CDC), is the simple preposition "for." This preposition implies that CDC and NIOSH not only study public health problems, but also do something about these problems. The policy of the U.S. Public Health Service (PHS) and the Department of Health and Human Services is to prevent disease and injury through health protection, health promotion and the delivery of appropriate preventive health services. Among other activities, CDC and NIOSH protect the public health by recommending sound policies for intervention. To assure that these recommendations are scientifically sound in the area of occupational safety and health, NIOSH conducts a program of directed research. NIOSH has an overall management strategy for protecting worker safety and health which incorporates four points.

First, NIOSH planning addresses the "1990 Objectives for the Nation." These objectives of the PHS were developed by the public health community. In addition, the NIOSH plan will incorporate the objectives of the PHS National Toxicology Program. The objectives for occupational safety and health specify areas in which deaths, injuries, and illness can be reduced and eventually eliminated.

Second, NIOSH plans are integrated with the CDC's strategy for preventing premature mortality, reducing unnecessary morbidity and improving the quality of life. In addressing occupational disease and injury, NIOSH will seek to work with the public health structure of the Nation, as CDC has done to combat preventable disease. This structure includes State and local health departments, schools of public health and medicine, occupational safety and health professionals, and private and public health practitioners, voluntary agencies and other health workers.

Third, NIOSH planning reflects requests to us from client agencies in the Department of Labor: the Occupational Safety and Health Administration, the Mine Safety and Health Administration, and the Employment Standards Administration. The organization that compiles these requests from our clients is called the NIOSH Planning Group.

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Fourth, the strategies of NIOSH are organized into five major tactical programs with corresponding goals, constituting a system for defining and solving occupational safety and health problems. These programs enable NIOSH to --

1. Identify occupational safety and health problems so as to detect and define epidemiologically significant changes in the status of occupational safety and health.

2. Evaluate occupational safety and health problems and occupational hazards so as to understand their causes and to detect their vulnerabilities to prevention.

3. Control occupational safety and health problems through discovering, assessing, and improving measures to reduce occupational hazards especially through control technology, protective equipment, work practices, and hazard-detection devices.

4. Disseminate scientific findings and appropriate recommendations to all organizations and individuals with the need to know to assist them to act to reduce occupationally related health problems; training and developing personnel for the field are essential elements of this program.

5. Administer these programs in a sense of total commitment to the highest principles of public stewardship.

Thus our strategy to prevent work-related illness and injury is based on the policies of the Department, PHS, and CDC with the awareness of the needs of client agencies; provides a framework in which problems are identified and understood; assesses methods for controlling the causes of problems; and disseminates the results to those capable of acting to protect the worker.

J. Donald Millar, M.D.
Assistant Surgeon General
Director, National Institute for
Occupational Safety and Health

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FOREWORD

The National Institute for Occupational Safety and Health's major responsibility is to conduct research necessary to ensure, insofar as possible, that no worker will suffer impaired health and functional capacity or diminished life expectancy as a result of his or her work experience. NIOSH's current responsibilities were established by the following legislative authorities:

1. Occupational Safety and Health Act of 1970 (Public Law 91-596) which created NIOSH in the Department of Health and Human Services as the research agency for occupational safety and health in the Nation's workplaces, and the Occupational Safety and Health Administration in the Department of Labor to establish and enforce related standards.

2. Federal Mine Safety and Health Amendments Act of 1977 (Public Law 95-164) which amended the Federal Coal Mine Health and Safety Act of 1969 (Public Law 91-173), in effect merging the 1969 Act and the Federal Metal and Nonmetallic Mine Safety Act of 1966 (Public Law 89-577). The 1969 Act created the Mine Safety and Health Administration in DOL and gave the Public Health Service authority to develop standards for the mining industry. Under the mandate to PHS, NIOSH conducts coal mine health research, recommends health and safety standards, and ensures availability of medical examinations for underground miners. The major purpose of the 1977 amendments was to direct the Secretary of Health and Human Services and the Secretary of Labor to develop and promulgate improved mandatory health or safety standards to protect the health and safety of the Nation's coal or other miners.

3. Comprehensive Health Planning and Public Health Service Amendment Act of 1966 (Public Law 89-749), Title III, Part A--Research and Investigation, which includes authorization of the Surgeon General to make and enforce such regulations as are necessary to prevent the introduction, transmission, or spread of communicable diseases from foreign countries into the States or possessions, or from one State or possession to another.

NIOSH also has responsibilities established through other legislative authorities:

1. Toxic Substances Control Act of 1976 (Public Law 94-469) whereby NIOSH serves on the Interagency Testing Committee, which recommends chemicals for testing, and on the Interagency Toxic Substances Data Committee, and advises the Environmental Protection Agency regarding epidemiologic studies to be undertaken.

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2. Health Professions Educational Assistance Act of 1976 (Public Law 94-484) through which NIOSH provides technical assistance to the Health Resources Administration in DHHS for their occupational health training and education centers.

3. Outer Continental Shelf Lands Act Amendments of 1977 (Public Law 95-372) through which NIOSH, with the Secretary of Commerce and in cooperation with the Secretary of Transportation regarding U.S. Coast Guard operations, conducts studies of underwater diving techniques and equipment suitable for protecting human safety.

4. Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (Public Law 96-510)--the Superfund Act--through which NIOSH, in conjunction with OSHA, EPA, and DOT, is directed to study and modify the National Contingency Plan to provide for the protection of the safety and health of employees involved in response actions. Such actions, by definition, include investigation and cleanup operations at uncontrolled hazardous waste sites, and emergency response to spills, leaks, etc.

This document outlines NIOSH's Program Plan for inhouse and extramural projects for Fiscal Year 1982--October 1, 1981, through September 30, 1982. This plan will serve as a tool for ongoing internal planning and control by the Institute management. To ensure that NIOSH responds promptly and appropriately to emerging problems, modifications will be made in individual projects as necessary.

NIOSH has sustained substantial cuts in resources in FY 1982 and, within those restrictions, special effort will be made to continue to protect the highest-priority Program Areas. The amount of appropriated funds dropped from $80.4 million in FY 1980 to $67.8 million in FY 1981, and to $58.8 million in FY 1982, with the NIOSH training program incurring the most severe reductions. The highest-priority Program Areas for FY 1982 are reproductive effects, surveillance, neurotoxic effects, respirators, control systems, injury and trauma, information dissemination and document development, and stress. The full list of 20 NIOSH Program Areas is displayed in the Keys to Coding, as are the four major components of the program structure--to identify, evaluate, and control occupational safety and health problems, and to disseminate research findings and recommendations.

Continuing grants awarded for FY 1982 have been identified individually, for the first time, in the NIOSH annual Program Plan to make this information available to the document's readers simultaneously with that on the other NIOSH activities.

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Emphasis will be placed on continuing efforts to identify the needs of users of NIOSH's research findings. For example, the Program Plan for FY 1982 includes specific research project proposals to meet requests from the Department of Labor's NIOSH Planning Group which identified the research needs of the Occupational Safety and Health Administration, Mining Safety and Health Administration, and Employment Standards Administration. Similarly, continuing efforts will be made to identify needs of other users of NIOSH's programs and products--individual workers, organized labor and management, the general population, other Federal agencies, and State and local governments.

Dissemination of information on NIOSH's research and surveillance findings--as early as and to the broadest extent possible--also will continue to have a high priority to ensure nationwide awareness of hazards experienced by workers in the Nation's workplaces. The general public--an undertapped, potentially highly influential supportive force in efforts to protect the safety and health of the Nation's workers--will be a major target in NIOSH's FY 1982 information dissemination efforts.

We will want to continue to improve our Annual Program Plan in both content and presentation and in usefulness to readers both within and outside the Institute. Your suggestions for change toward improvement would be appreciated. Such suggestions, and any questions regarding this document, should be addressed to Melvin L. Myers, Director, Office of Program Planning and Evaluation, NIOSH, CDC, Building 3, Room 117, 1600 Clifton Road, Atlanta, GA 30333.

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KEYS TO CODING

Program Areas (PROG) - Columns 96 and 124

IDENTIFY OCCUPATIONAL SAFETY AND HEALTH PROBLEMS

B -- Surveillance
V -- Health Hazard Evaluations

EVALUATE OCCUPATIONAL SAFETY AND HEALTH PROBLEMS

A -- Reproductive Effects
C -- Neurotoxic Effects
F -- Injury/Trauma
I -- Lung Disorders
J -- Cutaneous Disorders
L -- Cardiovascular Disorders
M -- Cancer
O -- Stress-Related Disorders
Q -- Physical Agents

CONTROL OCCUPATIONAL SAFETY AND HEALTH PROBLEMS

D -- Respirators
E -- Control Systems
G -- Other Personal Protective Equipment
N -- Sampling/Analysis
U -- Instrument/Methods Development

DISSEMINATE OCCUPATIONAL SAFETY AND HEALTH FINDINGS AND RECOMMENDATIONS

H -- Information Dissemination/Document Development
K -- Work Force Development

W - ADMINISTER INSTITUTE PROGRAMS

X - ALL OTHER PROGRAM AREAS

Operation Mechanism (MECH) - Column 98

a -- Contract Only
b -- Contract and Inhouse
c -- Inhouse Only
d -- Interagency Agreement
e -- Grant
f -- Cooperative Agreement
g -- Other Combinations

Source of Funding (FUND) -- Column 100

a -- Base Program
b -- Coal Mining
c -- Environmental Protection Agency
d -- Metal and Nonmetal Mining
e -- National Cancer Institute
f -- National Occupational Hazards Survey
y -- Other

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Offices/Division and Branches -- Columns 119 and 120

A - Division of Biomedical and Behavioral Science
- a - Applied Psychology and Ergonomics
- c - Experimental Toxicology
- d - Technical Support
- e - Physical Agents Effects

B - Division of Physical Sciences and Engineering
- a - Engineering Control Technology
- b - Measurements Research Support
- c - Methods Research
- d - Monitoring and Control Research

C - Division of Respiratory Disease Studies
- a - Epidemiological Investigations
- b - Environmental Investigations
- c - Clinical Investigations
- d - Laboratory Investigations
- e - Examination Processing

D - Division of Surveillance, Hazard Evaluations, and Field Studies
- a - Hazard Evaluations and Technical Assistance
- b - Industrywide Studies
- c - Surveillance
- d - Support Services

E - Division of Safety Research
- a - Safety Surveillance
- b - Accident and Injury Epidemiology
- c - Standards and Consultation
- d - Testing and Ceritification

F - Office of Extramural Coordination and Special Projects
- a - Grants Administration and Review
- b - Regional Operations

G - Division of Standards Development and Technology Transfer
- a - Program Management
- b - Document Development
- c - Priorities and Research Analysis
- d - Technical Information

H - Division of Training and Manpower Development
- a - Direct Training
- b - Curriculum Development
- c - Educational Resource Development

I - Office of Administrative and Management Services
- a - Administrative Services
- b - Financial Management
- c - Management Systems
- d - Procurement and Grants Management

J - Office of the Director

K - Office of Program Planning and Evaluation
- a - Planning and Program Development
- b - Evaluation and Control
- c - Policy Analysis

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Research Areas

Primary, Col. 121; Secondary, Col. 122; Tertiary, Col. 123

N = NIOSH Planning Group in the Department of Labor

EXPOSURE-SPECIFIC STUDIES

a - Radiation
d - Biohazards
e - Pesticides
f - Heat, Cold, Noise, Vibrations, and Pressure
g - Fibers
h - Solvents
i - Energy
j - Cotton Dust
k - Asbestos
m - Coal Dust
n - Silica
p - Lead
q - Arsenic
r - Zinc
s - Falls from Elevations
t - Caught In, Under, or Between
u - Hazardous Wastes
y - Other

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NIOSH
Summary of Resources by Program Goals
Fiscal year 1982
(funds are in thousands of dollars)

	Person Years	Non-Personnel Funds	Total Funds*
Identify Occupational Safety and Health Problems	229.4	6803.2	12958.4
Evaluate Occupational Safety and Health Problems	203.0	11451.6	16982.1
Control Occupational Safety and Health Problems	127.8	4577.4	8202.5
Disseminate Occupational Safety and Health Findings and Recommendations	94.7	10425.5	12874.4
Administer Institute Programs	231.9	8705.3	14767.0
All Other Program Areas	44.5	4699.3	5771.0
TOTALS	931.3	$46662.3	$71555.4

*The total funds for planning purposes include funds appropriated by the Congress, funds transferred from other agencies for research, reimbursements for services, and overallocation of funds in anticipation of cancellation of projects during the year.

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NIOSH
Summary of Resources by Divisions
Fiscal Year 1982
(funds are in thousands of dollars)

Research Divisions	Person Years	Non-Personnel Funds	Total Funds*
Division of Biomedical and Behavioral Science	108.8	6229.5	9191.8
Division of Physical Sciences and Engineering	98.2	3426.2	6233.2
Division of Respiratory Disease Studies	133.3	3962.4	7665.2
Division of Surveillance, Hazard Evaluations, and Field Studies	194.5	5082.0	9989.7
Division of Safety Research	72.7	2514.9	4538.9
Office of Extramural Coordination and Special Projects	56.0	6040.0	7684.0
Non-Research Divisions			
Division of Standards Development and Technology Transfer	84.8	3889.8	6136.8
Division of Training and Manpower Development	31.7	7694.0	8487.3
Office of Administrative and Management Services	92.5	6717.3	9050.4
Office of the Director	41.8	880.0	1924.8
Office of Program Planning and Evaluation	17.0	226.2	653.3
TOTALS	931.3	$46662.3	$71555.4

*The total funds for planning purposes include funds appropriated by the Congress, funds transferred from other agencies for research, reimbursements for services, and overallocation of funds in anticipation of cancellation of projects during the year.

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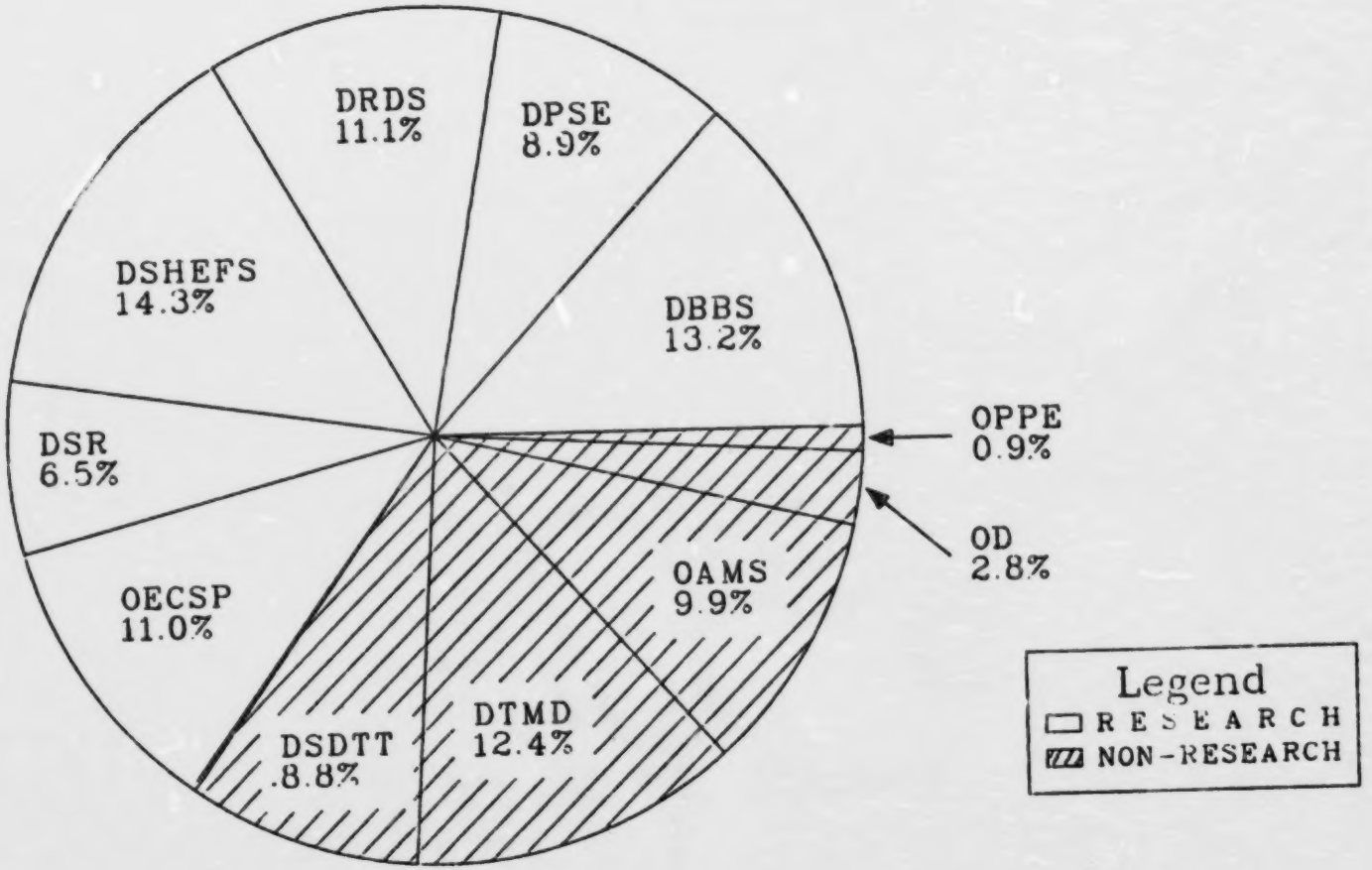
SUMMARY OF RESOURCES BY DIVISION FOR FY 1982

TOTAL FUNDS



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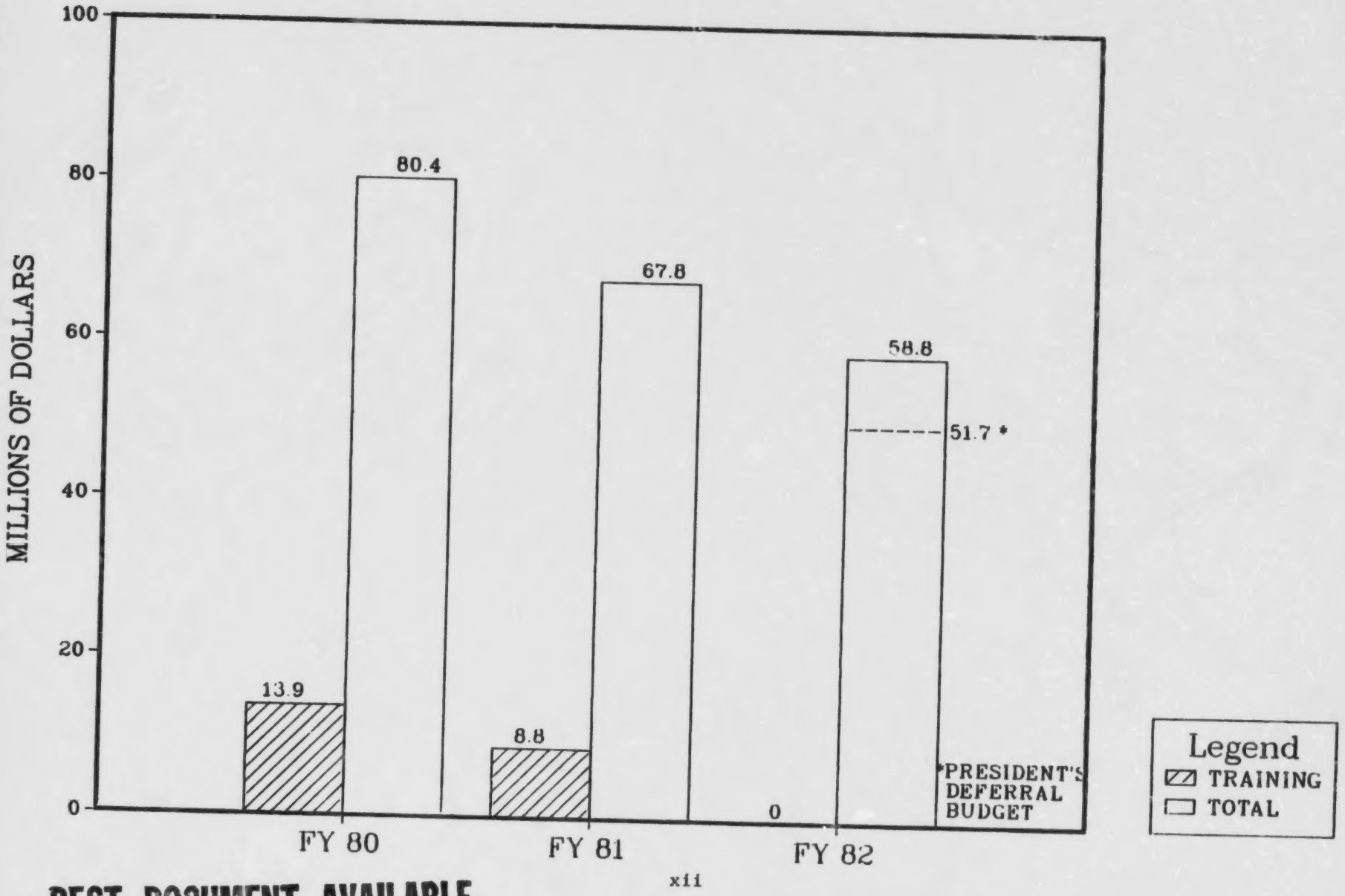
NIOSH APPROPRIATIONS



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NIOSH PROGRAM GOALS AND PROGRAM AREAS

IDENTIFY OCCUPATIONAL SAFETY AND HEALTH PROBLEMS

NIOSH's goal, to identify occupational safety and health problems, is the foundation of the NIOSH policy to prevent occupationally induced illnesses, injuries, and deaths. Under this goal NIOSH defines the state of occupational safety and health through the disciplines of medicine, industrial hygiene and safety, and statistics. NIOSH investigators derive priorities for research and public health action and measure progress in preventing impairments. Facts are generated from national safety and health daca bases and from requests by workers and employers for health hazard evaluations. Scientific hypotheses are generated from these facts. The following long-range objectives for the Nation are considered under this goal:

1. By 1985, an ongoing occupational health hazard/illness/injury coding system and a survey and surveillance capability should be developed, including identification of workplace hazards and related health effects such as cancer, coronary heart disease, and reproductive effects. This system also should include adequate measurements of the severity of work-related disabling injuries.

2. By 1985, at least one question about lifetime work history and known exposures to hazardous substances should be added to all appropriate existing health data reporting systems (e.g., cancer registries, hospital discharge abstracts, and death certificates).

3. By 1990, the number of health hazard evaluations being performed annually should increase to 1,500. (In 1979, NIOSH performed about 150 health hazard evaluations.)

And the following FY 1982 objectives requested by the Department of Labor's NIOSH Planning Group also are considered under this goal:

First-Order Priority

1. Institute a surveillance program to provide the Mine Safety and Health Administration with the identity of and information on toxic substances and harmful physical agents present in mines.

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2. Identify for the Employment Standards Administration three key occupations and industries (e.g., construction, eating and drinking places, laundries, hospitals) that employ significant numbers of youth and in which dangerous exposures (e.g., chemicals, radiation) are likely to occur.

Second-Order Priority

3. Review and evaluate with ESA the existing and proposed medical records system used by workers' compensation programs.

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SURVEILLANCE

NIOSH has responsibility for developing national surveillance systems that identify workplace hazards and work-related injuries, disease, disability, or death.

To identify hazards in general industry, a second National Occupational Hazard Survey (NOHS-II) was initiated in 1980. For a period of about 2 years, specially trained surveyors will visit a probability sample of about 5,000 U.S. workplaces. They will record the potential exposures to chemical and physical agents that they observe. A similar mining environmental surveillance program is being developed. The results from NOHS-II and the mining hazard surveillance program will provide decision makers with an updated profile of potential workplace hazards seen in a cross section of U.S. industries, mines, mills, and occupations.

To obtain information about work-related injury and illness effects, national data sets from other agencies are being adapted by NIOSH for use in occupational health and injury surveillance. These sources include the Bureau of Labor Statistics data bases, the National Center for Health Statistics Health Interview Survey, the Social Security Administration's Continuous Disability History Sample, State workers' compensation programs, and State vital statistics record systems. For example, (1) four surveillance cooperative agreements (Maine, New York, Rhode Island, and Utah) were funded; (2) NCHS, the Bureau of Census, and NIOSH are cooperating in the development and adaptation of vital statistics records for occupational health studies; (3) eight States pilot-tested a Bureau of Census-designed occupation/industry coding-training module that will be offered to all States during FY 1982; (4) worker compensation data are being programed for easy analysis of injury statistics; (5) hospital records on injured workers who obtained emergency treatment are being obtained and analyzed in conjunction with the Consumer Products Safety Commission's National Electronic Injury Surveillance System; and (6) injury incidence rates based on 1980 census figures are being computed to help pinpoint high-risk occupations.

Division of Respiratory Disease Studies

The Division's environmental surveillance efforts are directed toward fulfillment of the mining surveillance mandate given the Institute in the Federal Mine Safety and Health Act of 1977 (Public Law 95-164). The Act specifically directs the Secretary to determine, for each toxic material or harmful physical agent that is used or found in a mine, the potential toxicity of the material for the concentrations in which it is used or found. Responsibility for this aspect of the surveillance program was given to DRDS, which is conducting the National Occupational Hazards Survey of Mining.

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The NOHSM will (1) inventory substances brought into the mines and used in extraction and processing of ores, (2) sample materials that naturally occur in the mines, (3) collect information about occupational health surveillance programs available to miners, and (4) collect other information that describes the mines covered by the survey. After obtaining this information NIOSH will determine the toxicity of the substances and physical agents so found, and project the exposures within the entire mining industry.

Accomplishments to date include the development of the sampling protocol, an appropriate questionnaire, and a training program for surveyors, and the partial completion of the survey projection programs. The sample of survey sites and the projection flow chart have now been developed by a NIOSH contractor. NIOSH staff will supply a computer code for the projection of national statistics. Future work includes submission of the survey package to the Office of Management and Budget for Federal Reports Act clearance, determination of the proper implementation method for the survey (i.e., inhouse personnel, contracted work, or interagency agreement), and the actual performance of the survey. The actual survey work is scheduled to be initiated when the general industry survey field work has been accomplished by DSHEFS. Institute resources are not sufficient to accomplish two such field-intensive studies at the same time.

During FY 1982, DRDS will:

1. Continue preparation and testing of protocol for NOHSM, based upon reduced resource allocations. Investigations will test various methods of administering the questionnaire, inventorying substances, and obtaining environmental samples.

2. Conduct targeted environmental investigations of potential health hazards in mining as suggested by MSHA and BOM, and/or reports in the literature.

3. Consolidate environmental data available from other sources.

4. entify high-risk cohorts suitable for health surveillance.

Division of Surveillance, Hazard Evaluations, and Field Studies

The DSHEFS surveillance program includes the collection of data on potential occupational health hazards and illnesses, the analysis of this information, and the dissemination of these results to

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decision makers. To identify workplace hazards, a NIOSH data base, NOHS-II, has been developed. For illness-effects surveillance, existing national health and demographic data bases have been adapted to meet DSHEFS' needs. A summary of the FY 1981 activities and their continuance into FY 1982 is as follows:

1. DSHEFS initiated the field phase of NOHS-II on November 3, 1980. By the end of FY 1981 approximately 1,500 worksites employing nearly 500,000 workers will have been surveyed, with a 98 percent response rate. The goal is to complete the field phase of NOHS-II in FY 1983, and to begin the analytical phase of this survey. In part this analysis will involve the identification and classification of chemical ingredients found in approximately 90,000 trade-name products used in U.S. workplaces. Without this trade-name product ingredient resolution, NIOSH decision makers will not have estimates of the number of workers potentially exposed to specified hazards found in the wide array of U.S. industries and occupations.

2. The development of an illness-effects surveillance base as derived from national, State, and other health data systems is continuing and involves:

   - o The renewal and expansion of the scope of interagency agreements with NCHS, SSA, and BLS.
   - o The expansion of the program of surveillance cooperative agreements between NIOSH and States (SCANS) from four to at least eight States by 1983.
   - o Defining a list of International Classification of Disease rubrics that describe occupationally related Sentinel Health Events.
   - o Developing methods for making annual estimates of the number of occupationally related deaths and diseases.
   - o Adapting computer-generated mapping techniques for displaying potential workplace hazards, illness effects, and associations between hazards and illnesses.
   - o Completing six Surveillance Reports based on disease patterns observed for workers in selected industries (e.g., accidents among loggers).

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3. In order to disseminate the results of surveillance activities more effectively, a new series of NIOSH publications called Surveillance Reports (as mentioned above) will be emphasized. Studies from DSR and DSHEFS will appear in this series and, with the assistance of DSDTT, distribution will be targetted to the appropriate decision makers in government, industry, labor, and academia.

Division of Safety Research

DSR's efforts in the surveillance program area are organized primarily in the Safety Surveillance Branch, but also include research projects aimed at assessment of exposure to risks in various work settings.

Surveillance in general in DSR is intended to assess the numbers, rates, and impacts of occupational injuries and fatalities in the Nation. This is done through access to established injury-reporting systems and through development of specific data sources for special project needs. The information obtained is used for identifying injury patterns, high-risk occupations, industries, and operations; for setting research priorities, and defining precise areas for further research; for supporting recommendations for changing safety standards; and for monitoring changes to evaluate specific preventive efforts. The data sources used for these efforts include:

1. Workers' compensation data from over 30 States for 1977 through 1979 provide basic frequency and severity measures and injury characteristics on 4.5 million cases. Computer access to these data makes possible morbidity studies and identification of problems. Surveillance reports based on these files will be produced in FY 1982.

2. DSR collaborates with BLS and OSHA in conducting Work Injury Report Surveys, which are special-topic mail surveys of injured workers. Data from these surveys represent an important step in providing detailed case series for indepth analysis of problems and formulation of specific hypotheses.

3. In collaboration with the Consumer Product Safety Commission, DSR receives daily reports of work-related injuries that are treated at hospital emergency rooms. A sample of such hospitals participate in CPSC's NEISS which permits national estimates of emergency-room-treated job injuries. Since this system provides daily reports, it is being used to detect sudden changes in accident trends, and as a source of data for followup investigations.

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4. In addition, other data sources are being considered for future projects: Death certificate files from State agencies, OSHA fatality investigation abstracts, occcupational injury incidence rates using workers' compensation and census employment data, and special surveys of workers exposed to selected hazards (e.g., chemicals requiring protective clothing). Insurance industry data also will be explored for their surveillance potential.

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000			
********SURVEILLANCE********														B	9 (B
														B	10
DIVISION OF RESPIRATORY DISEASE STUDIES													C	B	11
													C	B	12
1. Health Effects Target Surveillance (Costello J 304-599-7476)(VKL-aDp-184)(1.5/25.0/70.0) (1.0/15.0/149.0)(100/VCa-Bmm-184)	81	84					B	b	d				Cammy	B	14
													Cammy	B	15
													Cammy	B	16
													Cammy	B	17
.1 Contact state health departments and other agencies to locate existing data sources (1Q81)													Cammy	B	18
													Cammy	B	19
.2 Investigate record systems to determine suitability for research purposes (2Q81)													Cammy	B	20
													Cammy	B	21
.3 Develop preliminary protocols for pilot studies in target areas (2Q81)													Cammy	B	22
													Cammy	B	23
.4 Discuss pilot epidemiologial studies with appropriate personnel in states identifies as fruitful sources of data (initially Vermont and North Carolina) (3Q81)													Cammy	B	24
													Cammy	B	25
													Cammy	B	26
.5 Develop detailed study protocols with assistance from state personnel (4Q81)													Cammy	B	27
													Cammy	B	28
.6 Complete data collection in Vermont and North Carolina				o									Cammy	B	29
.7 Analyze data					o	o							Cammy	B	30
.8 Make recommendations for full-scale research projects, as appropriate													Cammy	B	31
						o							Cammy	B	32
.9 Complete final report on pilot studies (3Q83)													Cammy	B	33
.10 Continue with investigation of newly identified target sources (3,4Q83)													Cammy	B	34
													Cammy	B	35
													Cammy	B	36
2. Epidemiological/Surveillance Methods Study (Attfield M 304-599-7501)(VKL-iDX-197)(100/VCa-Byy-197)	81	82					B	c	b				Cayyy	B	39
													Cayyy	B	40
													Cayyy	B	41
.1 Complete and report comparison of various computer programs designed for mortality analysis													Cayyy	B	42
						o							Cayyy	B	43
.2 Second interim report on industrial hygiene study				o									Cayyy	B	44
.3 Complete final report and submit abstract to Director, NIOSH, with copy of report and abstract to DTS													Cayyy	B	45
						o							Cayyy	B	46
													Cayyy	B	47

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
3. Analysis of Receiving Center Data (Althouse R 304-599-7501) (VKL-aDp-178)(100/VCa-Bmn-178)	80	82					B	c	b				CammiB	50
													CammiB	51
													CammiB	52
.1 Complete file, process data, technical report Round 3 (1Q81)													CammiB	53
.2 Select individuals from high/low dust environments. Randomize films, send out for reading			o										CammiB	54
.3 Build computer file as x-ray data is returned				o									CammiB	55
.4 Dose-response analysis for mines and miners complete					o								CammiB	56
.5 General correlations based on average dust levels per mine with prevalence data for all mines					o								CammiB	57
.6 Complete analysis						o							CammiB	58
.7 Submit final report and abstract to Director, NIOSH and copy of report and abstract to DTS						o							CammiB	59
													CammiB	60
													CammiB	61
													CammiB	62
													CammiB	63
													CammiB	64
4. Mining Environmental Data Analysis Library (Dieffenbach A 304 599-7361) (100/VCb-Bty-167)	82	C					B	c	d				CbtyyB	67
													CbtyyB	68
													Cbtyyb	69
													CbtyyB	70
													CbtyyB	71
.1 Purchase terminal			o										CbtyyB	72
.2 Program NIOSH computer to handle MSHA Metal/Non-metal Data Tapes													CbtyyB	73
.a Use MSHA computer system for retrieval until NIOSH system is fully operational (No. indicates expected retrievals)(cumulative)			5	10	15	20							CbtyyB	74
.b Achieve retrieval of information from NIOSH computer system				o									CbtyyB	75
.c Use NIOSH computer system for data analysis						o							CbtyyB	76
.3 Program NIOSH Computer to Handle MSHA Coal Data Tapes													CbtyyB	77
.a Obtain tapes			o										CbtyyB	78
.b Start programming for data retrieval				o									CbtyyB	79
.c Achieve retrieval and analysis (FY83)													CbtyyB	80
.4 Program NIOSH Computer to Handle State Environmental Data													CbtyyB	81
.a Code pyrophyllite and kaolin data					o								CbtyyB	82
.b Achieve retrieval and analysis of pyrophyllite and kaolin data						o							CbtyyB	83
.c Explore other data sources			1	2	3								CbtyyB	84
													CbtyyB	85
													CbtyyB	86
													CbtyyB	87
													CbtyyB	88
													CbtyyB	89

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
5. Environmental Surveillance of Third Round NSCWP (Wheeler W 304-599-7421) (VKP-apD-158)(0.6/10.0/33.0) (100/VCb-Bmi-158)	80	83					B	c	b				CbminB	92
													CbminB	93
													CbminB	94
.1 Complete field survey (Cumulative)			3	4	5	7							CbminB	95
.2 Complete mid-survey analysis of existing data, and submit interim report to Director, DRDS				2									CbminB	96
.3 Complete individual mine survey reports (Cumulative)				4	5								CbminB	97
.4 Complete individual mine survey reports (1Q83)													CbminB	98
.5 Complete computer coding of all study data (2Q83)													CbminB	99
.6 Complete draft final report and submit for review (3Q83)													CbminB	100
.7 Complete final report and abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q83)													CbminB	101
													CbminB	102
													CbminB	103
													CbminB	104
													CbminB	105

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
6. Target Mining Environmental Surveillance (Cocalis J 304-599-7421)(VKP-apD-155)(100/VCb-Bng-155)	80	C					B	b	d				CbngfB	108
													CbngfB	109
													CbngfB	110
													CbngfB	111
.1 Preliminary Investigations Assigned													CbngfB	112
.a Silicosis in Rock Drillers			o										CbngfB	113
.b Vermiculite			o										CbngfB	114
.c Vanadium			o										CbngfB	115
.d Non-commercial fibers - Phase II			o										CbngfB	116
.e NOHS-M Investigation			o										CbngfB	117
.f Metal species in ore (metal to be identified)			o										CbngfB	118
.g Dynamites			o										CbngfB	119
.h Heat Stress			o										CbngfB	120
.i Urethanes in mining			o										CbngfB	121
.j Uranium ore beneficiation				o									CbngfB	122
.2 Preliminary Investigation Reports Received by Deputy Director, DRDS													CbngfB	123
.a-.e			5										CbngfB	124
.f-.i				4									CbngfB	125
.j				1									CbngfB	126
.3 In-house Final Reports to Deputy Director, DRDS for External Review													CbngfB	127
.z Zeolite/erionite (FY81 origin)			1										CbngfB	128
.a-.e					5								CbngfB	129
.f-.i					4								CbngfB	130
.j						1							CbngfB	131
.4 Completion and Dissemination of In-house Final Reports with External Comments Considered													CbngfB	132
.z FY81 origin reports			10										CbngfB	133
.a-.e						5							CbngfB	134
.f-.j (FY83)													CbngfB	135
.5 Contractor Reports Received													CbngfB	136
.a Phase I			1										CbngfB	137
.b Phase II			4										CbngfB	138
.c Phase III						5							CbngfB	139
													CbngfB	140
													CbngfB	141
													CbngfB	142
7. NCH Autopsy Study Service (Martin M. 304-599-7301) (VKQ-apD-233)(100/VCe-Bmn-233)	71	C					B	c	b				CemnyB	145
													CemnyB	146
													CemnyB	147
													CemnyB	148
.1 Process acceptable autopsies for payment within 45 days (cumulative)			( )	( )	( )	( )							CemnyB	149
.2 Present exhibit at ASCP/CAP meeting			o										CemnyB	150
.3 Present program to Funeral Directors in high coal states					o								CemnyB	151
.4 Contact study participants for input on possible improvements in program					o								CemnyB	152
													CemnyB	153
													CemnyB	154

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
8. Receiving Center (Martin M 304-599-7301) (VKQ-apD-235)(100/VCc-Bmm-235)	70	C					B	c	b				CemmyB	157
													CemmyB	158
													CemmyB	159
													CemmyB	160
.1 Review, approve operators' plans; make arrangements for examination of miners not covered by plans			o	o	o	o							CemmyB	161
.2 Process examinations of coal miners			o	o	o	o							CemmyB	162
.3 Certify x-ray facilities			o	o	o	o							CemmyB	163
.4 Certify physicians			o	o	o	o							CemmyB	164
.5 Provide coding, tracking, microfilming, and filing support to other branches			o	o	o	o							CemmyB	165
.6 Provide interpretations by certified "B" readers to support research projects, health hazard investigations, and reading trials conducted by other branches			o										CemmyB	166
.7 Implement and maintain "B" reader Quality Assurance Program			o	o	o	o							CemmyB	167
			o										CemmyB	168
													CemmyB	169
													CemmyB	170
													CemmyB	171
DIVISION OF SURVEILLANCE, HAZARD EVALUATIONS AND FIELD STUDIES													D a	173
													D b	174
9. Access to NOHS Data Base - Profile Development (NCI) (Joe Seta 513-684-2706) (1.0/100.0/125.0)(VMO-Byy-662)	79	C					B	c	e				DcyyyB	176
													DcyyyB	177
													DcyyyB	178
													DcyyyB	179
A. NOHS-I requests processed through 3Q81 - 131													DcyyyB	180
													DcyyyB	181
B. Process requests for NOHS-I information.			40	80	120	160							DcyyyB	182
													DcyyyB	183
C. Develop information profiles on hazards, industries and occupations.			500	1k	1.5k	2k							DcyyyB	184
													DcyyyB	185
													DcyyyB	186
D. Publish a base-wide summary of exposure estimates.			0	0	0	0							DcyyyB	187
													DcyyyB	188
10. Development of Trade Name Ingredient Data Base (NCI) (Randy Young 513-684-2706) (2.0/140.0/200.0)(100/VMO-Byy-663)	78	C					B	c	e				DcyyyB	191
													DcyyyB	192
													DcyyyB	193
A. Receive final report from contractor on TNIC modifications (1Q81).													DcyyyB	194
													DcyyyB	195
B. Initiate ingredient clarification programming.			o										DcyyyB	196
C. Procure system hardware for clarification programming.				o									DcyyyB	197
D. Submit OMB package to OPPE.					o								DcyyyB	198
E. Obtain OMB approval.						o							DcyyyB	199
F. Pending OMB approval, develop future milestones.						o							DcyyyB	200
													DcyyyB	201
													DcyyyB	202

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
11. Utilization of Full File for Survey/Sampling Decisions (NCI) (Dave Pedersen 513-684-2706) (0.5/155.0/170.0)(100/VMO-Byy-665)	78	C					B	b	e				DcyyyB	205
													DcyyyB	206
													DcyyyB	207
													DcyyyB	208
													DcyyyB	209
A. Requests serviced through 3Q81 - 95.													DcyyyB	210
													DcyyyB	211
B. Service requests for industry profiles or geographic listings of industry activity.			20	40	60	80							DcyyyB	212
C. Submit RFC to OAMS for purchase of full file (210-82-)				o									DcyyyB	213
D. Award contract.						o							DcyyyB	214
													DcyyyB	215
12. NOHS-2 (Dave Sundin 513-684-2706) (10.0/300.0/500.0)(100/VMO-Byy-620)	80	C					B	b	a				DcyyyB	218
													DcyyyB	219
													DcyyyB	220
													DcyyyB	221
A. Facilities surveyed through 3Q81 - 1000.													DcyyyB	222
													DcyyyB	223
B. Complete facility surveys.			750	1500	2250	3000							DcyyyB	224
C. Complete survey manual (Vol. I)				o									DcyyyB	225
D. Complete sample design report (Vol. II)					o								DcyyyB	226
E. Complete data editing and data base development report (Vol. III)						o							DcyyyB	227
						o							DcyyyB	228
F. Develop outlines for special topic reports.													DcyyyB	229
13. Registry-based Occupational Cancer Surveillance - Phase I (Judy Lisson 513-684-3284) (100/VMO-Byy-617)	78	82					B	b	a				DcyyyB	232
													DcyyyB	233
													DcyyyB	234
													DcyyyB	235
													DcyyyB	236
A. Complete study protocol (3Q78).													DcyyyB	237
B. Award contract (1Q79).													DcyyyB	238
C. Obtain OMB clearance (2Q80).													DcyyyB	239
D. Complete case control identification (3Q81).			o										DcyyyB	240
E. Complete preliminary data analyses.				o									DcyyyB	241
F. Complete draft final report.					o								DcyyyB	242
G. Receive final report from contractor.						o							DcyyyB	243
H. Complete final report and transmit abstract to Director, NIOSH and copy to DTS.													DcyyyB	244
													DcyyyB	245

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000	
14. Lead Surveillance (Joyce Salg 513-684-3284) (0.5/45.0/60.0)(100/VMO-Bpp-616)	81	83					B	g	a				DcpppB 246
A. Complete OMB package (2Q81).													DcpppB 249
B. Obtain OMB clearance through BLS.			o										DcpppB 250
C. Initiate survey.				o									DcpppB 251
D. Complete survey.					o								DcpppB 252
E. Complete data processing and editing.						o							DcpppB 253
F. Complete preliminary analysis, prepare final report and/or additional milestones as necessary (4Q83).													DcpppB 254
													DcpppB 255
													DcpppB 256
													DcpppB 257
													DcpppB 258
15. Registration of Disease and Exposure Cohorts (Ed Dacey 513-684-3284) (0.2/20.0/25.0)(100/VMO-Byy-625)	79	C					B	b	a				DcyyyB 261
A. Award Beryllium Case Registry Renewal-210-79-0067 (3Q81).													DcyyyB 262
B. Edit and update existing files.			o	o	o	o							DcyyyB 263
C. Submit RFC to OAMS for BCR contract (210-82)			o										DcyyyB 264
D. Complete draft report on BCR file update.				o									DcyyyB 265
E. Award BCR contract.					o								DcyyyB 266
F. Complete update report on file status of all cohorts and submit recommendations for future activities.						o							DcyyyB 267
													DcyyyB 268
													DcyyyB 269
													DcyyyB 270
													DcyyyB 271
16. State Mortality Module (Bill Crouse 513-684-3284) (5.0/250.0/390.0)(100/VMO-Byy-624)	80	C					B	g	a				DcyyyB 272
A. Award cooperative agreements (4Q80).													DcyyyB 275
B. Receive program descriptions on final protocol from the four grantees (2Q81).													DcyyyB 276
C. Submit RFC or request to renew cooperative agreements.			o										DcyyyB 277
D. Complete site visit to each existing grantee.			o										DcyyyB 278
F. Obtain data tapes from grantees.						o							DcyyyB 279
F. Award continuation contract or grant.						o							DcyyyB 280
													DcyyyB 281
													DcyyyB 282
													DcyyyB 283
													DcyyyB 284
													DcyyyB 285
													DcyyyB 286
													DcyyyB 287
													DcyyyB 288
													DcyyyB 289

FY'81 Surveillance Branch reports that were not completed will be included here in the 1st quarter, FY'82 program review.

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000	
17. Disability Surveillance of Occupation and Industry (Tom Fischbach 513-684-3284) (2.4/35.0/100.0)(100/VMO-Byy-629)	81	C					B	g	a				DcyyyB 292
													DcyyyB 293
													DcyyyB 294
													DcyyyB 295
													DcyyyB 296
A. Complete development of NIOSH - SSA IA (2Q81).			o										DcyyyB 297
B. Submit renewal of IA (81-50) to OPPE.				o									DcyyyB 298
C. Award IA.			o			o							DcyyyB 299
D. Complete reports on strategy and procedures to identify occupation/industries for intensive study.				o									DcyyyB 300
E. Complete Report on Occupational Characteristics of Disabled Workers, 1975-1976 and submit abstract to Director, NIOSH and copy to DTS.					o								DcyyyB 301
F. Complete Report on Estimates of Occupation-Related Disability, 1969-1976 and submit abstract to Director, NIOSH and copy to DTS.													DcyyyB 302
													DcyyyB 303
													DcyyyB 304
													DcyyyS 305
													DcyyyB 306
													DcyyyB 307
18. Mortality Surveillance of Occupation and Industry (Bill Crouse 513-684-3284) (3.5/410.0/500.0)(100/VMO-Byy-633)	81	C					B	g	a				DcyyyB 310
													DcyyyB 311
													DcyyyB 312
													DcyyyB 313
													DcyyyB 314
A. Complete Bureau of Census/NCHS IA (2Q81).													DcyyyB 315
B. Submit renewal for IA with Census (81-42) and NCHS (81-07)			o										DcyyyB 316
C. Award IA's.				o									DcyyyB 317
D. Complete review of pre-test.				o									DcyyyB 318
E. Complete evaluation of implementation strategies.						o							DcyyyB 319
F. Initiate coding of industry and occupations from death certificates by the states (2Q83).													DcyyyB 320
													DcyyyB 321
													DcyyyB 324
19. Occupational Mortality In Washington State (Ed Dacey 513-684-3284) (100/VMO-Byy-642)	81	82					B	b	a				DcyyyB 325
													DcyyyB 326
													DcyyyB 327
													DcyyyB 328
A. Complete coding and editing of data (2Q81).													DcyyyB 329
B. Receive sample data file from contractor.			o										DcyyyB 330
C. Receive final report from contractor.				o									DcyyyB 331
D. Complete final report and submit abstract to Director, NIOSH and copy to DTS.					o								DcyyyB 332
													DcyyyB 333

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
DIVISION OF SAFETY RESEARCH														
													E B	336
													E B	337
20. Industrial Change Surveillance (Gustin 923-7576) (VLB-abN-816)(100/VEa-BNy-816)	81	82					B	c	a				EaNyyB	338
.1 Identify data sources for potential analysis (1Q81)													EaNyyB	339
.2 Analyze and evaluate data sources for their usefulness in defining problems (3Q81).													EaNyyB	340
.3 Prepare plans for using data and analyses in injury surveillance system (3Q81)													EaNyyB	341
.4 Evaluate each source for injury rate predictive value (4Q81)													EaNyyB	342
.5 Prepare interim planning report to Director, DSR, with recommendations for Division programs (4Q81)													EaNyyB	343
													EaNyyB	344
													EaNyyB	345
													EaNyyB	346
													EaNyyB	347
													EaNyyB	348
.6 Test five data sources against NEISS and other surveillance data for statistical associations			1	3	4	5							EaNyyB	349
.7 Prepare project evaluation report for Director, DSR						o							EaNyyB	350
.8 Submit article on results for publication in journal						o							EaNyyB	351
													EaNyyB	352
													EaNyyB	353
													EaNyyB	354

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MEC H	FUN D	RESOURCES PY	NPF $1000	TF $1000		
21. General Surveillance and Analysis (Gustin 923-7576) (VLB-abN-806)(1.0/80.0/110.0)(1.00/VEa-BNy-806)	77	C					B	c	a				EaNyyB	357
													EaNyyB	358
													EaNyyB	359
.1 BLS Supplementary Data Tapes													EaNyyB	360
a. Report on status to Director, DSR			o	o	o	o							EaNyyB	361
b. Submit annual tables by program areas				o									EaNyyB	362
.2 FRASE Data Base													EaNyyB	363
a. Report to Director, DSR, on status				o		o							EaNyyB	364
b. Update data base with epi project reports					o								EaNyyB	365
.3 Milwaukee Industrial Clinic Back Injury Data													EaNyyB	366
a. Prepare purchase order (3Q81)													EaNyyB	367
b. Receive evaluation of data elements			o										EaNyyB	368
c. Submit report to Director, DSR			o										EaNyyB	369
.4 High Risk Injury Pattern Analysis													EaNyyB	370
a. Develop & approve calculation methods			o										EaNyyB	371
b. Complete tables & analysis				o									EaNyyB	372
c. Submit report to Director, DSR						o							EaNyyB	373
.5 Accident Investigation Reports Analysis													EaNyyB	374
a. Prepare purchase order (2Q81)													EaNyyB	375
b. Receive and review draft report						o							EaNyyB	376
c. Receive final report, copy to Director, DSR						o							EaNyyB	377
.6 Punch Press Injury Investigation Data													EaNyyB	378
a. Prepare purchase order (2Q81)													EaNyyB	379
b. Receive and review draft report			o										EaNyyB	380
c. Receive final report, copy to Director, DSR				o									EaNyyB	381
.7 Offshore Oil & Gas Well Drilling													EaNyyB	382
a. Submit strategy plan to Branch Chief (2Q81)													EaNyyB	383
b. Attend 1 ADC Safety Congress (3Q81)													EaNyyB	384
c. Conduct orientation for DSR personnel (3Q81)													EaNyyB	385
d. Submit job description/task analysis for offshore oil workers to Branch Chief			o										EaNyyB	386
e. Complete analysis of safety/health data						o							EaNyyB	387
f. Submit report and abstract to Director, DSR (1Q83)													EaNyyB	388
.8 Feasibility of establishing new National Data System in conjunction with existing mechanism													EaNyyB	389
a. Issue sources sought for development					o								EaNyyB	390
b. Evaluate & report to Director, DSR, on potential sources						o							EaNyyB	391
													EaNyyB	392
													EaNyyB	393

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000			
DIVISION OF STANDARDS DEVELOPMENT AND TECHNOLOGY TRANSFER													G	B	396
22. Priorities and Research Analysis (D. West-513/684-8302) (VII-pyy-743,745,746,736,737,738,739 & 087)(100/VII-Byy-087)	70	C					B	g	a				G	B	397
													GcyyyB		398
													GcyyyB		399
													GcyyyB		400
.1 Recruit personnel			o	o									GcyyyB		401
.2 Current Awareness													GcyyyB		402
a. Data input and system improvement			o	o	o	o							GcyyyB		403
b. Interagency Agreement-Incremental Funding (TIRC-50k)				o									GcyyyB		404
.3 Priorities													GcyyyB		405
a. Cycle for planning FY83													GcyyyB		406
.01 Present contract for profiles expires; 40 profiles received				o									GcyyyB		407
.02 Analyze profiles for future action; develop preliminary recommendations for document and research priorities (lists and PRSs)													GcyyyB		408
.03 Submit draft lists & PRSs to Division				o	o								GcyyyB		409
.04 Submit final lists & PRSs to Division (for use by Div. and for forwarding to OPPE)					o								GcyyyB		410
b. Cycle for planning FY84						o							GcyyyB		411
.01 Submit RFC for new contract for profiles (400k)				o									GcyyyB		412
.02 Award new contract (for profiles due Feb. 83); requires completion of refined list of subjects for consideration)													GcyyyB		413
c. Emerging Problems Priorities (TIRC 76k)						o							GcyyyB		414
.4 Research Analysis (RA)						o							GcyyyB		415
a. General													GcyyyB		416
.01 RA on notable items entering CA data base			o	o	o	o							GcyyyB		417
.02 Track emerging problems for recommending Division or Institute action.			o	o	o	o							GcyyyB		418
.03 Prepare RA reports, upon requests from Division or Institute Director (e.g. 5 RA reports)			o	o	o	o							GcyyyB		419
.04 IA Incremental Funding (TIRC 64k)					o								GcyyyB		420
b. Quantitative Risk Assessment (QRA)													GcyyyB		421
.01 Comparative Risk Assessment Manual													GcyyyB		422
a. Submit RFC					o								GcyyyB		423
b. Award contract						o							GcyyyB		424
.02 Risk Estimation Computer Software													GcyyyB		425
a. Submit RFC					o								GcyyyB		426
b. Award contract						o							GcyyyB		427
.03 Risk Assessment methodology for Reversible Toxic Effects													GcyyyB		428
a. Submit RFC					o								GcyyyB		429
b. Award contract						o							GcyyyB		430
.04 Consultant Services (14k)						o							GcyyyB		431
.5 Current Research File (CRF) Maintenance													GcyyyB		432
													GcyyyB		433
													GcyyyB		434
													GcyyyB		435
													GcyyyB		436
													GcyyyB		437
													GcyyyB		438
													GcyyyB		439
													GcyyyB		440
													GcyyyB		441

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	FUND	RESOURCES PY	NPF $1000	TF $1000		
a. (Second year renewal of contract												GcyyyB	442
on a funds available basis)												GcyyyB	443
.01 Submit RFC					o							GcyyyB	444
.02 Award contract						o						GcyyyB	445
												GcyyyB	446
b. Acquisition of reports			1.5k	3k	4.5k	6k						GcyyyB	447
												GcyyyB	448
c. Data extraction & update			1.2k	2.4k	3.6k	4.8k						GcyyyB	449
d. Obtain and Input Executive Summaries of NIOSH projects												GcyyyB	450
.01 Obtain Executive Summaries of NIOSH Projects				o								GcyyyB	451
.02 Input Executive Summaries of NIOSH Projects					o							GcyyyB	452
.03 Review Executive Summaries of NIOSH Projects through Divisions					o							GcyyyB	453
.04 Submit Executive Summaries of NIOSH Projects to SSIE						o						GcyyyB	454
e. Interface with other NIOSH components												GcyyyB	455
												GcyyyB	456
.01 Provide output in formats for program analysis			2	4	6	8						GcyyyB	457
												GcyyyB	458
.02 Provide OPPE formats with executive summaries			1	2	3	4						GcyyyB	459
												GcyyyB	460
.03 Provide PRAB with research analysis topic searches			4	8	12	16						GcyyyB	461
g. Use of CRF												GcyyyB	462
												GcyyyB	463
.01 Internal searches			45	90	135	180						GcyyyB	464
												GcyyyB	465
.02 External searches			60	120	180	240						GcyyyB	466
.6 Document Information Directory System (DIDS)												GcyyyB	467
												GcyyyB	468
a. Acquisition of NIOSH documents			150	300	450	600						GcyyyB	469
												GcyyyB	470
b. Data extraction and update			150	300	450	600						GcyyyB	471
												GcyyyB	472
c. Input NIOSH authored presentations			100	200	300	400						GcyyyB	473
d. Interface with other NIOSH components												GcyyyB	474
.01 DIDS customized subfiles with special index terms												GcyyyB	475
a. DSHEFS-IWS			o	o	o	o						GcyyyB	476
b. DTMD				o								GcyyyB	477
.02 Submit plan to NIOSH Director for identification & input of congressional and regulatory testimony				o	o							GcyyyB	478
												GcyyyB	479
e. Output searches			180	360	540	720						GcyyyB	480
.7 Information systems support activities												GcyyyB	481
a. TRAINS												GcyyyB	482
.01 Update file			o	o	o	o						GcyyyB	483
.02 Revise software			o	o	o	o						GcyyyB	484
b. Mailing List												GcyyyB	485
												GcyyyB	486
												GcyyyB	487

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
.01 Revise software			o										GcyyyB	488
.02 Update list			o	o	o	o							GcyyyB	489
c. Other NIOSH Divisions													GcyyyB	490
.01 Mailing list analysis			1	2	3	4							GcyyyB	491
.02 File development			1	2	3	4							GcyyyB	492
.8 Input NIOSH projects to SSIE					o								GcyyyB	493
.9 Interagency Agreements (Reimbursables)													GcyyyB	494
a. Submit IA for OSHA, BIA, MSHA, & EPA to OPPE			o										GcyyyB	495
.10 NIOSHTIC Contract and System Maintenance													GcyyyB	496
a. Renewal of main contract													GcyyyB	497
.01 Submit RFC & 2.75 to OPPE				o									GcyyyB	498
.02 Award contract						o							GcyyyB	499
b. Review Contract Deliverables													GcyyyB	500
.01 Abstract data entry			3k	6k	9k	12k							GcyyyB	501
.02 Microfiche and hard copy			3k	6k	9k	12k							GcyyyB	502
c. Increase number of NIOSHTIC records			81k	84k	87k	90k							GcyyyB	503
d. Retrospective cleanup of NIOSHTIC anomalies													GcyyyB	504
.01 Verify and correct misc. NIOSH document citations			30	60	90	120							GcyyyB	505
.02 Identify & remove duplicates			8k	8k	8k	6k							GcyyyB	506
.11 NIOSHTIC Interface with NIOSH Programs													GcyyyB	507
a. Provide literature search topics to contractor based on priorities & CIB topics			6		16								GcyyyB	508
b. Submit NIOSH documents to NTIS & NIOSHTIC & supply NTIS account numbers & NIOSHTIC number to DIDS			90	180	270	360							GcyyyB	509
c. NIOSHTIC Review Panel													GcyyyB	510
.01 Establish panel			o										GcyyyB	511
.02 Quarterly meeting			o	o	o	o							GcyyyB	512
.12 NIOSHTIC Use													GcyyyB	513
a. Provide update tapes to NTIS				o	o	o							GcyyyB	514
b. Information exchange with Canadian Center for Occupational Health & Safety													GcyyyB	515
.13 Main RTECS contract (Tracor Jitco)			o	o	o	o							GcyyyB	516
a. Reports													GcyyyB	517
b. Quarterly microfiche			o	o	o	o							GcyyyB	518
c. Total number of substances			o	o	o	o							GcyyyB	519
d. Total number of synonyms			50k	52k	53k	55k							GcyyyB	520
			135k	138k	141k	143k							GcyyyB	521
													GcyyyB	522
													GcyyyB	523
													GcyyyB	524
													GcyyyB	525
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													GcyyyB	531
													GcyyyB	532
													GcyyyB	533

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
e. Total data lines input			18k	36k	54k	72k							GcyyyB	534
.14 Second year renewal of main RTECS contract													GcyyyB	535
a. Submit RFC					o								GcyyyB	536
b. Award contract						o							GcyyyB	537
.15 Toxic Effects Code Contract (Univ. of California, San Francisco)													GcyyyB	538
													GcyyyB	539
													GcyyyB	540
a. Data lines received from contractor			.4k	.9k	2.0k	3.0k							GcyyyB	541
b. Submit no-cost extension			o										GcyyyB	542
c. Award extension			o										GcyyyB	543
.16 RTECS Interface with other NIOSH components													GcyyyB	544
a. Editorial Review Board Meeting			o	o	o	o							GcyyyB	545
b. Provide data for NOHS analysis			o	o	o	o							GcyyyB	546
													GcyyyB	547
c. Process PRAB special file data			1.5k	3k	4.5k	6k							GcyyyB	548
													GcyyyB	549
d. Input DPSE analytical methods			5	10	15	20							GcyyyB	550
.17 Measure of external RTECS usage													GcyyyB	551
													GcyyyB	552
a. Quarterly microfiche subscription increase			1k			1.2k							GcyyyB	553
													GcyyyB	554
b. NLM search hours/month			300	600	900	1.2k							GcyyyB	555
													GcyyyB	556
c. CIS search hours/month			120	240	360	480							GcyyyB	557
													GcyyyB	558
d. GPO sales of book						6k							GcyyyB	559
.18 NLM Interagency Agreement Renewal				o									GcyyyB	560
.19 (Production of 1981 RTECS on a funds available basis)													GcyyyB	561
a. Submit tape to GPO VIDEOCOMP					o								GcyyyB	562
													GcyyyB	563

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HEALTH HAZARD EVALUATIONS

The purpose of this activity in NIOSH is to conduct the health hazard evaluation programs mandated by the Occupational Safety and Health and the Federal Mine Safety and Health Acts. These programs respond to requests for assistance from employers, employees and their authorized representatives, other Federal agencies, and State and local agencies to determine the toxic effects of chemical, biological, or physical agents that are used or found in the workplace. To accomplish this assistance, cross-sectional medical and industrial hygiene investigations are conducted at the workplace of concern. These investigations evaluate the substances, processes, work practices, etc. found in the workplace, and come to conclusions about related health effects based on the most recent published criteria (i.e., OSHA and MSHA standards, NIOSH recommendations for standards, and Threshold Limit Values published by the American Conference of Governmental Industrial Hygienists). Recommendations for improved work practices, control techniques, and industrial hygiene procedures are then made to the employer to reduce the risk of adverse health effects on the employees.

During FY 1981, over 500 requests for assistance were received. Over 275 final reports were issued and approximately 200 requests were closed out by letter (often after a site visit). For FY 1982, a moderate increase in the number of both requests and completions is expected. Increased dissemination of these results is planned. In addition, requests will be stimulated in several areas of specific importance and interest to the Institute. Building on efforts initiated in FY 1981, DSHEFS, DRDS, OECSP, DBBS, and DPSE will place major emphasis on increasing the efficiency of the HHE programs through streamlining procedures, better segmenting of incoming requests, and more effective management.

Division of Surveillance, Hazard Evaluations, and Field Studies

DSHEFS' HHE program has as its goal to (1) increase the responsiveness to requests, (2) continue to decrease the average time to complete an investigation, (3) increase the number of completed investigations to 500 per annum, (4) increase the number of HHEs resulting in followup research efforts by NIOSH, and (5) expand the number of subsequent dissemination efforts resulting from HHEs.

During FY 1981, over 450 HHE (general industry) requests were received. Over 230 final reports were issued, and an additional 150 requests were closed out by letter (often after a site visit). Dissemination efforts increased, including two quarterly summaries of HHE reports, ten articles in CDC's Morbidity and Mortality Weekly Report and publication of the general results of HHEs in two professional/trade journals.

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For FY 1982, DSHEFS expects to receive approximately 500 new requests. These requests should continue to derive proportionately from the same sources as FY 1981: approximately 50 percent from employees or unions, 25 percent from employers (mainly small businesses), and 25 percent from other governmental agencies. Nearly 250 final reports will be issued, and another 250 requests will be completed by letter (often after an initial site visit). In addition:

1. Continued efforts will be made to improve the efficiency of the program. This will be done by better segmenting (triaging) of incoming requests to concentrate efforts on more important requests (i.e., new agents, multiple exposures, undocumented health effects). These continued efforts should lead to both greater productivity and decreased time to complete reports.

2. The effort to improve the dissemination of HHE results also will continue. This effort will include publication of CDC's MMWR articles and technical papers, and efforts to widely disseminate selected HHE results. Particular attention will be given to employers and workers in specific industries where it may be important to be aware of new HHE findings.

3. In FY 1982, the effectiveness of regional decentralization should be able to be evaluated and then a plan for any expansion of the concept can be developed, if appropriate.

4. Special areas of emphasis in the HHE program also will be developed in FY 1982. These will include hazardous wastes, reproductive hazards, and ergonomic hazards. There also will be an increased effort to uncover problems in these areas and others which are suitable for more complete followup evaluations by other NIOSH research programs.

5. A concerted effort will be made to strengthen the linkages between the HHE program and the related counterparts in universities and State health departments. Building on experience gained through cooperative agreements in FY 1981 in working with New Jersey, the University of North Carolina, and Harvard University, practical mechanisms will be developed to (a) improve communications regarding ongoing program activities of mutual interest, (b) develop capabilities to conduct HHEs at the State and academic levels, (c) jointly conduct investigations when appropriate, and (d) improve the dissemination of results of investigations.

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Division of Biomedical and Behavioral Sciences

DBBS performs HHEs on factors identified with physical agents, job stress, and ergonomics problems associated with work environments or conditions. Expertise within DBBS is strongly associated with these factors in terms of intramural and extramural research consulation and field experience. In FY 1981 approximately 35 HHEs related to physical agents were performed, and six HHEs bearing on ergonomic factors were conducted. Continuation of this effort in FY 1982 and 1983 is planned.

Division of Respiratory Disease Studies

Under the provisions of Section 501(a)(11) of the Federal Mine Safety and Health Act of 1977 (Public Law 95-164), NIOSH has the responsibility to conduct HHEs in mines upon request from miners and mine operators. This program responds to health concerns of the approximately 500,000 miners in coal and metal and non-metal mines. In addition to assessing health hazards at actual mine sites, the personnel in the HHE program assess hazards in preparation plants, mills, maintenance facilities, laboratories, and waste treatment plants associated with the mine site. The program also provides technical assistance to other Federal agencies and State and local agencies with interests in mining operations.

The HHE program identifies potential health hazards at a particular mine site. Once a study is completed the results are distributed so that other mines with similar potential hazards are made aware of the particular problems. Internally, the HHE program acts as a passive surveillance progam which provides information to active mine surveillance and to research programs for future areas of emphasis.

In FY 1980, the third year of operation, the program handled 64 requests requiring at least a walk-through survey and in many cases an indepth study. In FY 1981, due to budget considerations, 50 such requests were projected; by the end of the third quarter, 35 requests had been received. Similiar levels of activity are anticipated by FY 1983. In addition to surveys, the HHE program also provides technical information to individuals who write or call regarding particular interests in mining-related exposures or health problems.

The HHE program also conducts hazard evaluations related to respiratory diseases in general industry under the auchority of the Occupational Safety and Health Act of 1970 (Public Law 91-173). These requests come to DRDS via the Hazard Evaluation and Technical Assistance Branch, DSHEFS.

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
********HEALTH HAZARD EVALUATIONS*******													V	567
													V	568
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE													A V	569
													A V	570
1. Behavioral-Ergonomic Support for HHEs (A. Cohen, 684-8292) (V0B-fAE-273)(100/V0B-Vyy-273)	81	C					V	c	a				Aayyy V	572
													Aayyy V	573
													Aayyy V	574
													Aayyy V	575
.1 Response to TAs on Biomechanical Issues													Aayyy V	576
													Aayyy V	577
a. Perform consultation			1	2	3	4							Aayyy V	578
													Aayyy V	579
b. Perform site visits			0	1	2	3							Aayyy V	580
													Aayyy V	581
c. Submit report to DSHEFS			0	1	2	3							Aayyy V	582
.2 Response to TAs on Job Stres Issues													Aayyy V	583
													Aayyy V	584
a. Perform consultation			1	2	3	4							Aayyy V	585
													Aayyy V	586
b. Perform site visits			0	1	2	2							Aayyy V	587
													Aayyy V	588
c. Submit reports to DSHEFS			0	1	2	2							Aayyy V	589
.3 Response to HHEs on Neurobehavioral Issues													Aayyy V	590
													Aayyy V	591
a. Perform consultation			0	1	2	2							Aayyy V	592
													Aayyy V	593
b. Perform site visits			o	o	o	o							Aayyy V	594
													Aayyy V	595
c. Submit report to DSHEFS			0	0	1	1							Aayyy V	596
.4 Submit progress report to Director, DBBS			o	o	o	o							Aayyy V	597
.5 Submit final report to Director, DBBS						o							Aayyy V	598
.6 Submit abstract to Director, NIOSH						o							Aayyy V	599

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
2. Clinical Chemistry Service & Research - HHEs (L. Lowry 684-8338) (100/VOT-Vyy-378)	82	C					V	c	a				AdyyyV	602
													AdyyyV	603
													AdyyyV	604
.1 Develop hazard data sheets (H.D.S.) as needed			o										AdyyyV	605
.2 Submit H.D.S. to Director, DBBS			o										AdyyyV	606
.3 Submit H.D.S. to all project staff			o										AdyyyV	607
.4 Submit progress report to Director, DBBS			o	o	o	o							AdyyyV	608
.5 Complete SOPs for common methods			o										AdyyyV	609
.6 Per quarter, complete 85% of HHE or TA samples			o	o	o	o							AdyyyV	610
.7 Develop Biological Monitoring Methods													AdyyyV	611
a. Organic solvents			o		o								AdyyyV	612
b. Other methods as requested				o		o							AdyyyV	613
.8 Provide HHE consultation			o	o	o	o							AdyyyV	614
.9 Submit final project report to Director, DBBS						o							AdyyyV	615
.10 Submit abstract to Director, NIOSH						o							AdyyyV	616
													AdyyyV	617
3. Health Hazard Evaluations of Physical Agents (W Murray 684-8482) (100/VOG-Vaf-354)	82	C					V	c	a				AeafyV	620
													AeafyV	621
													AeafyV	622
.1 Respond to HHE/TA requests			3	6	9	12							AeafyV	623
.2 Submit progress report to Director, DBBS			o	o	o	o							AeafyV	624
.3 Submit final report to Director, DBBS						o							AeafyV	625
.4 Submit abstract to Director, NIOSH						o							AeafyV	626
													AeafyV	627
DIVISION OF PHYSICAL SCIENCES AND ENGINEERING													B V	629
													B V	630
4 HHE Analytical Support (John L. Holtz 684-4218) (VQK-uXX-425)(7.8/225/471)(100/VQK-Vyh-425)	82	C					V	b	a				BbyhyV	632
													BbyhyV	633
.1 Analyze routine samples from HHE and TA surveys (DSHEFS)			2.5k	5.0k	7.5k	10k							BbyhyV	634
.2 Analyze non-routine samples from HHE and TA surveys (DSHEFS)			500	1.0k	1.5k	2.0k							BbyhyV	635
.3 Analyze samples submitted from Regions			150	300	450	600							BbyhyV	636
.4 Procure Short Term Method Development Contract													BbyhyV	637
a. Submit R+C to OAMS			o										BbyhyV	638
b. Award Contract				o									BbyhyV	639
.5 Analyse samples from General Industry HHE's (DRDS)			150	300	450	600							BbyhyV	640
.6 Provide analyses of samples from mining HHE's			250	500	750	1.0k							BbyhyV	641
.7 Short-term method development for HHE/TA surveys			4	8	12	16							BbyhyV	642
.8 Maintain an average turnaround time of 30 working days for in-house HHE and TA sample analyses.			30	30	30	30							BbyhyV	643
													BbyhyV	644
													BbyhyV	645
													BbyhyV	646

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MEC H	FUN D	RESOURCES PY	NPF $1000	TF $1000
DIVISION OF RESPIRATORY DISEASE STUDIES												
5. Mining Health Hazard Evaluation/Technical Assistance (Engelberg A 304-599-7203) (VKP-fpD-153)(100/VCc-Vdn-153)	81	C					V	b	b			
.1 FY'81 HE/TA Requests Received: 38 (4Q81)												
.2 FY'81 HE/TA Final Reports: 22 (4Q81)												
.3 Active Pre '82 Requests			40	30	20	10						
.4 New HE/TA Requests			10	20	30	40						
.5 HE/TA's Completed			10	20	30	40						
.6 Active Requests			40	40	40	40						
.7 Field Surveys Conducted			12	24	36	48						
a. DRDS			11	22	33	44						
b. Regions			45	91	132	182						
c. Other			11	21	31	42						
.8 HE/TA's Completed: Type of Report			10	20	30	40						
a. Full Reports			7	13	19	38						
b. Without Reports (Letter/Other)			3	7	11	12						
c. Other Close Outs												
.9 HE/TA's Completed: Investigators			10	21	32	40						
a. DRDS			9	18	28	37						
b. Regions			0	1	2	2						
c. Medical Services/Cooperative Agreement Reports			1	2	2	2						
.10 Median Response Time (Hos.)												
Full Reports			8	8	8	8						
Letter Reports			4	4	4	4						

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
.11 % Investigations over 5 months old with required Interim Reports prepared this Quarter			70%	75%	80%	85%							CcdnyV	695
.12 Other Requests Serviced			40	80	120	160							CcdnyV	696
.13 Initiate Institute Studies from HE/TA's						2							CcdnyV	697
.14 Final reports transmitted to requestor and/or interested parties, and NIOSH distribution			o	o	o	o							CcdnyV	698
.15 Criteria Document Assistance													CcdnyV	699
a. Complete Input and Review of In-house Criteria Documents			o	o	o	o							CcdnyV	700
b. Complete Review of Contract Criteria Documents			o	o	o	o							CcdnyV	701
c. Complete Support to OSHA and Hearings and Other Congressional Hearings			o	o	o	o							CcdnyV	702
													CcdnyV	703
													CcdnyV	704
													CcdnyV	705
													CcdnyV	706
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													CcdnyV	710

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000			
DIVISION OF SURVEILLANCE, HAZARD EVALUATIONS AND FIELD STUDIES													D	V	713
													D	V	714
6. Health Hazard Evaluations and Technical Assistance (Jim Melius 513-684-2176) (71.5/2,000.0/3,700.0)(100/VMC-Vyy-688)(100/VMR-Wyy-680)	80	C					V	g	a				Dayyy	V	715
													Dayyy	V	716
													Dayyy	V	717
													Dayyy	V	718
													Dayyy	V	719
													Dayyy	V	720
A. FY'81 HE/TA requests received through 3Q81- 365.													Dayyy	V	721
B. FY'81 completed HE/TA's through 3Q81 - 283.													Dayyy	V	722
C. Active pre'82 requests.			325	250	175	100							Dayyy	V	723
D. New HE/TA requests.			125	250	375	500							Dayyy	V	724
E. HE/TA's completed.			125	250	375	500							Dayyy	V	725
F. Active requests.			400	400	400	400							Dayyy	V	726
G. Initial surveys conducted			100	200	300	400							Dayyy	V	727
1. HETAB			45	90	135	180							Dayyy	V	728
2. Regions			45	90	135	180							Dayyy	V	729
3. Other			10	20	30	40							Dayyy	V	730
H. Follow-up surveys conducted.			65	130	195	260							Dayyy	V	731
1. HETAB			35	70	105	140							Dayyy	V	732
2. Regions			25	50	75	100							Dayyy	V	733
3. Other			5	10	15	20							Dayyy	V	734
I. HE/TA's completed: type of report			125	250	375	500							Dayyy	V	735
1. Full reports			65	130	195	260							Dayyy	V	736
2. Letter reports			35	70	105	140							Dayyy	V	737
3. Other close outs			25	50	75	100							Dayyy	V	738
J. HE/TA's completed: investigators			125	250	375	500							Dayyy	V	739
1. HETAB			70	140	210	280							Dayyy	V	740
2. Regions			50	100	150	200							Dayyy	V	741
													Dayyy	V	742
													Dayyy	V	743
													Dayyy	V	744
													Dayyy	V	745
													Dayyy	V	746
													Dayyy	V	747
													Dayyy	V	748
													Dayyy	V	749
													Dayyy	V	750
													Dayyy	V	751
													Dayyy	V	752
													Dayyy	V	753
													Dayyy	V	754
													Dayyy	V	755
													Dayyy	V	756
													Dayyy	V	757
													Dayyy	V	758

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
3. Other			5	10	15	20							DayyyV	759
													DayyyV	760
K. Medical services/cooperative agreement reports			5	10	15	20							DayyyV	761
													DayyyV	762
L. Median Response Time (Mos.)													DayyyV	763
													DayyyV	764
1. Full reports			9	9	8.5	8							DayyyV	765
													DayyyV	766
2. Letter reports			5	5	4.5	4							DayyyV	767
													DayyyV	768
M. Percent of projects over 5 months with interim reports this quarter (%).			70	75	80	80							DayyyV	769
													DayyyV	770
													DayyyV	771
N. Other requests serviced.			40	80	120	160							DayyyV	772
													DayyyV	773
O. Initiate Institute studies from HE/TA's.				1	2	3							DayyyV	774
													DayyyV	775
P. Stimulation of specific types of HE/TA's													DayyyV	776
													DayyyV	777
1. Select five types			o										DayyyV	778
													DayyyV	779
2. Develop plans for each type.				o									DayyyV	780
													DayyyV	781
3. Implement plans.					o								DayyyV	782
													DayyyV	783
4. Evaluate effort (3Q83).													DayyyV	784
													DayyyV	785
Q. Evaluate allocation of personnel for HE/TA program													DayyyV	786
													DayyyV	787
1. Submit report to Director.				o									DayyyV	788
													DayyyV	789
R. Develop system for indexing HE/TA reports													DayyyV	790
													DayyyV	791
1. Design system			o										DayyyV	792
													DayyyV	793
2. Trial implementation for 100 reports				o									DayyyV	794
													DayyyV	795
3. Evaluate and develop plan for old reports					o								DayyyV	796
													DayyyV	797
S. Dissemination efforts			5	10	15	20							DayyyV	798
													DayyyV	799
													DayyyV	800
													DayyyV	801
													DayyyV	802
													DayyyV	803
													DayyyV	804

Missed FY'81 final reports will be identified in the first quarter FY'82.

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
DIVISION OF SAFETY RESEARCH													E V	807
													E V	808
7. Air Sampling Instruments Section, TCB (Roder 923-7339) ((VLI-mbp-855)(4.0/130.0/250.0)(100/VEd-Vhy-855)	72	C					V	g	a				EdhyyV	809
.1 Evaluate CMDPSU submitted for certification or extension or obtained for QA product audit			1	2	3	4							EdhyyV	810
a. Evaluate 100% minor submissions within 3 weeks			o	o	o	o							EdhyyV	811
b. Evaluate 100% major submissions within 2 months			o	o	o	o							EdhyyV	812
.2 CMDPSU performance standard													EdhyyV	813
a. Receive detailed test procedures from DPSE (4Q81)													EdhyyV	814
b. Purchase equipment for procedure (3FY81)													EdhyyV	815
c. Install equipment in laboratory			o										EdhyyV	816
d. Report on validation of DPSE						o							EdhyyV	817
.3 Revise CMDPSE 30CFR74 regulations (administrative QA eliminate unnecessary requirements)													EdhyyV	818
a. Submit notice of intent to revise 30CFR74 to OD for publication in FEDERAL REGISTER			o										EdhyyV	819
b. Continue meetings with MSHA for drafting proposed changes to regulations			o	o									EdhyyV	820
c. Submit proposed revisions to OD for transmittal to MSHA for publication in the FEDERAL REGISTER					o								EdhyyV	821
.4 Gas Detector Tube Unit Certification Program under NIOSH guidelines													EdhyyV	822
a. Report to Director, DSR, the options for continuing or discontinuing program. One option will be laboratory testing under Contract/Ia/Grant			o		o								EdhyyV	823
b. Publish user notice regarding status of program				o									EdhyyV	824
c. Submit for publication (3Q83)													EdhyyV	825
													EdhyyV	826
													EdhyyV	827
													EdhyyV	828
													EdhyyV	829
													EdhyyV	830
													EdhyyV	831
													EdhyyV	832
													EdhyyV	833
													EdhyyV	834
													EdhyyV	835

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
OFFICE OF EXTRAMURAL COORDINATION AND SPECIAL PROJECTS														
8. Regional Office Services (Bursenos, 443-3136) (VCH-fXy-876) (1.0/0.015/0.04) (100/VCH-Wyy-876) (VCI-fXy-882) (36.0/0.300/1,500.0) (100/VCI-Vyy-882)	71	C					V	c	a				F V	838
													F V	839
													FbyyyV	840
													FbyyyV	841
													FbyyyV	842
													FbyyyV	843
													FbyyyV	844
													FbyyyV	845
													FbyyyV	846
.1 Conduct HHE/TA's in determining toxic effects of substances used in the workplace per Section 20(a)(6) of the OSH Act.													FbyyyV	847
a. FY 81 Carryover Requests:													FbyyyV	848
.01 Expected carryover requests			170										FbyyyV	849
.02 Complete remaining initial surveys			25	50									FbyyyV	850
.03 Conduct follow-up environmental surveys			30	60	90								FbyyyV	851
.04 Submit draft final report to DSHEFS			30	70	100								FbyyyV	852
.05 Close-out letters			o	o	o	o							FbyyyV	853
b. FY 82 Requests													FbyyyV	854
.01 HHE/TA requests assigned			40	80	120	160							FbyyyV	855
.02 Conduct initial surveys			30	60	90	120							FbyyyV	856
.03 Conduct follow-up environmental surveys			20	40	60	90							FbyyyV	857
.04 Submit draft final report to DSHEFS				30	50	70							FbyyyV	858
.05 Close-out letters			o	o	o	o							FbyyyV	859
.2 Provide consultation and assistance to and in behalf of Testing and Certification Branch, DSR in the area of Personal Protective Equipment													FbyyyV	860
a. Conduct field investigations of complaints related to personal protective equipment at the request of Field Investigations Group			6	14	20	26							FbyyyV	861
b. Identify users and sites for testing field effectiveness of PPE in the Regions			o	o	o	o							FbyyyV	862
c. Transmit findings of potential PPE problems discovered in field by users to NIOSH Headquarters, DSR and TCB			o	o	o	o							FbyyyV	863
d. Establish and obtain equipment for a field audit program				o									FbyyyV	864
.3 Provide consultation and technical assistance in the Regions as well as to NIOSH Headquarters in the area of hazardous wastes disposal													FbyyyV	865
a. Serve as member on and/or provide technical assistance to regional response teams			o	o	o	o							FbyyyV	866
b. Provide on-site technical assistance and advice regarding worker exposure to hazardous and toxic wastes via NIOSH HHE/TA program and NIOSH responsibilities in the interagency agreement on management of toxic and hazardous wastes			o	o	o	o							FbyyyV	867
													FbyyyV	868
													FbyyyV	869
													FbyyyV	870
													FbyyyV	871
													FbyyyV	872
													FbyyyV	873
													FbyyyV	874
													FbyyyV	875
													FbyyyV	876
													FbyyyV	877
													FbyyyV	878
.4 Conduct investigations of workplace hazards and provide industrial hygiene and safety consultative services, self-initiated and upon request (DSHEFS assigned TA's excluded)			50	100	150	200							FbyyyV	879
													FbyyyV	880
													FbyyyV	881
.5 State Occupational Safety and Health Program Activities													FbyyyV	882
													Fb yyV	883

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MEAS	FUND	RESOURCES PY	NPF $1000	TF $1000		
a. Monitor and/or review the administrative and technical adequacy of State 23(g) grants and make appropriate recommendations to OSHA						22							FbyyyV	884
													FbyyyV	885
													FbyyyV	886
b. Assist States in further development of their occupational safety and health enforcement and/or consultation program(s) by providing technical expertise and information, site visits with programmatic reviews and assistance in defining and fulfilling staff training needs			o	o	o	o							FbyyyV	887
													FbyyyV	888
													FbyyyV	889
													FbyyyV	890
													FbyyyV	891
													FbyyyV	892
c. Identify gaps in State occupational safety and health programs which could be addressed by NIOSH and provide written recommendations to appropriate Institute activity for consideration in their program planning			o	o	o	o							FbyyyV	893
													FbyyyV	894
													FbyyyV	895
													FbyyyV	896
d. Provide consultation and technical assistance to States or other political subdivisions with "Right to Know" legislation or proposed legislation			o	o	o	o							FbyyyV	897
													FbyyyV	898
													FbyyyV	899
													FbyyyV	900
.6 Support and promote organized activities within the Region and Nationally impacting on workplace hazards by:													FbyyyV	901
a. Participating in appropriate committees, task forces, workshops, etc.			o	o	o	o							FbyyyV	902
													FbyyyV	903
b. Serving as resource persons to such organizations as NHSC, HSA's, professional organizations, universities, safety councils, Labor/Management Committees, etc.			o	o	o	o							FbyyyV	904
													FbyyyV	905
													FbyyyV	906
.7 Site-visit each ERC for program monitoring; site-visit or consult with other appropriate institutions within the regions for stimulation or monitoring research or training grants			10	20	30	40							FbyyyV	907
													FbyyyV	908
													FbyyyV	909
													FbyyyV	910
.8 Provide lectures, seminars, or training sessions within the regions to increase responsiveness to and awareness of occupational safety and health problems			25	50	75	100							FbyyyV	911
													FbyyyV	912
													FbyyyV	913
.9 Consult with MSHA, DOL, with respect to granting of waivers for provision of sanitary facilities and grant such approvals required by Subpart E and F of the Mandatory Health Standards for Surface Coal Mines			o	o	o	o							FbyyyV	914
													FbyyyV	915
													FbyyyV	916
													FbyyyV	917
10 Plan and conduct two regional program planning meetings			1		2								FbyyyV	918
11 Work with OPPE to develop a mechanism for Regional involvement in NIOSH planning process			o										FbyyyV	919
													FbyyyV	920
													FbyyyV	921
12 Develop white paper on proposed designation of regional staff to serve as liaison with each NIOSH Office and Division				o									FbyyyV	922
													FbyyyV	923
													FbyyyV	924
13 Visit each regional office annually to review regional program activities and problems			3	5	7	10							FbyyyV	925
													FbyyyV	926
14 Hold monthly Regional conference calls, including participation of Director, NIOSH and appropriate Offices/Divisions			3	6	9	12							FbyyyV	927
													FbyyyV	928
15 Prepare and submit to CDC Institute guidelines for RHA's annual workplans						o							FbyyyV	929

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EVALUATE OCCUPATIONAL SAFETY AND HEALTH PROBLEMS

NIOSH's goal, to evaluate occupational safety and health problems, is the core of NIOSH's scientific research. Under this goal NIOSH tests scientific hypotheses through the disciplines of epidemiology, toxicology, and kinesiology. NIOSH scientists ascertain and measure precisely the cause-and-effect relationship(s) of identified occupational safety and health hazards and the significance of each hazard. As associations of occupational safety and health problems are made to causes, intervention strategies can be implemented to prevent the problems. The following long-range objectives for the Nation are considered under this goal:

1. By 1985, a program should be developed to (a) follow up individual findings from health hazard evaluations, from reports from unions and management and from other existing surveillance sources of clinical and epidemiologic data, and (b) use the findings to determine the etiology, natural history, and mechanisms of suspected occupational disease and injury.

2. By 1990, the number of industrywide studies being performed annually should increase to 150. (In 1979, NIOSH performed about 15 industrywide studies.)

And the following FY 1982 objectives requested by DOL's NIOSH Planning Group also are considered under this goal:

First-Order Priority

1. Provide information, to MSHA, to develop heat-stress limits in mines.

2. Provide information, to MSHA, to develop multiphase exposure limits for each compound of vanadium.

3. Investigate the problems of repetitive motion injuries for the Occupational Safety and Health Administration.

Second-Order Priority

4. Provide information, to MSHA, that is necessary for developing multiphase exposure limits for lead sulfides vs. lead oxides.

5. Provide information, to MSHA, that is necessary for developing multiphase exposure limits for arsenic sulfides vs. arsenic oxides.

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6. Provide information, to MSHA, that is necessary for developing multiphase exposure limits for the synergistic effects of coal mine respirable dust and diesel exhausts.

7. Provide information, to MSHA, that is necessary for developing multiphase exposure limits for dust and quartz.

Third-Order Priority

8. Provide information, to MSHA, that is necessary for developing multiphase exposure limits for nitrogen oxides.

9. Provide information, to MSHA, that is necessary for developing multiphase exposure limits for carbon oxides.

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REPRODUCTIVE EFFECTS

Recent research data have highlighted the fact that the occupational setting can be the source of reproductive effects as well as the more commonly acknowledged deleterious effects such as lung dysfunction, cancer, dermatitis, etc. This research includes information on effects such as male sterility in dibromochloropropane workers, impotence in workers exposed to a neurotoxin, increased birth defects among children born to women pharmaceutical workers, and excessive spontaneous abortions among medical laboratory and office workers and hospital and dental personnel exposed to anesthetic gases. These startling facts have shown the need for better means to identify and evaluate hazardous chemicals and populations at risk, and to determine whether an occupational cluster of adverse reproductive effects is actually a result of occupation. To accomplish this, a formal reproductive effects initiative was established within NIOSH in FY 1980. This initiative is being implemented through laboratory and epidemiologic studies and will rely on improved methods for mutagenicity and teratogenicity testing and better epidemiologic tools which have been developed in the last 3 years. Completion of NIOSH's second National Occupational Hazard Survey (NOHS-II) also should enable NIOSH to identify most workers at risk once a hazard is identified. In addition, both surveillance and health hazard evaluation activities will complement laboratory methods used to identify hazards.

Division of Biomedical and Behavioral Sciences

DBBS's reproductive hazards program includes identification and assessment of chemicals that prevent or inhibit reproduction through effects on adults of either sex, interfere with normal development, are expressed either in utero or postnatally, or cause genetic disease. A total of 33 chemicals have been tested. Significant findings include the demonstration of adverse effects from glycol ethers on the reproductive systems of both male and female rats. Methods involving the use of drosophilia for short-term teratogenesis screeening are being developed. Laboratory studies of the effects of radiofrequency and microwave radiation have demonstrated that teratogenic effects in rats include facial aplasia and microencephaly. In FY 1982 efforts will continue that will:

1. Broaden the base of the reproductive toxicology program to develop a coordinated effort in reproductive physiology, teratogenesis, and mutagenesis.

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2. Establish a comprehensive research program to address each of the three general classes of reproductive effects (fertility impairment, abnormal development, and genetic disease) and how they relate one to another.

3. Take a lead role in developing and applying laboratory methods for evaluating the potential of mutagenic industrial chemicals to adversely affect subsequent generations.

Division of Respiratory Disease Studies

This Division's mutagenic monitoring of selected workplace environments and worker groups serves several purposes: the detection of mutagens in the workplace; the determination of whether mutagenic compounds found in the workplace are sufficient to cause genetic damage to the workers; establishing the relationship between the level of workplace mutagens, genetic damage, and health hazards; and identifying worker population groups for epidemiologic and surveillance studies. The results of mutagenic monitoring might be used as an environmental or biological dosimeter for adverse health effects. Activities in this area include:

1. The development of suitable mutagenic monitoring systems for the workplace environment.

2. Development and/or validation of in vitro assay systems to study the mutagenic activity of workplace chemical complexes and mixtures.

3. Performance, validation, or improvement of human mutagenic monitoring systems which include urine analysis and cytogenetic and gene mutation assays.

4. Performance of in vitro mutagenesis studies for health hazard evaluations and other related projects within the Institute, and identification of occupational groups for mutagenic monitorings and epidemiologic studies.

Division of Surveillance, Hazard Evaluations, and Field Studies

DSHEFS performs two types of studies to examine the adverse reproductive effects that may be caused by occupational exposures to certain biological, chemical, and physical agents. These effects may be manifested as infertility, spontaneous abortion, fetal death, low birth weight, altered sex ratio, birth defects, developmental deficits, and childhood cancer.

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The two epidemiologic approaches employed by DSHEFS are case-control studies of reproductive failure and parental exposure cohort studies.

Surveillance studies utilize existing data to establish associations between reproductive failures and parental employment, and usually use the case-control design. The DSHEFS FY 1982 surveillance reproductive initiative program consists of five projects that were initiated in FYs 1980 and 1981:

1. An interagency agreement with NCHS is being utilized to collect data from their 1980 National Natality and Fetal Death follow-back study.

2. Surveillance cooperative agreements with New York and Utah are being utilized to analyze State data on the possible association between parental employment and fetal death.

3. A case comparison study of parental employment and fetal outcome is being conducted utilizing data from New York City.

4. A study of parental employment and spontaneous abortion is being conducted using the extensive data set compiled by the Research Foundation for Mental Hygiene, Inc. (Columbia University).

5. Identification of groups of workers potentially exposed to teratogens in the workplace as sensed by means of the 1972-74 NOHS-I is being accomplished through linkage with NIOSH's Registry of Toxic Effects of Chemical Substances.

Those reproductive hazards investigations that fall into DSHEFS' industrywide studies program are generally conducted using the parental exposure cohort concept. The study designs and analytical tools necessary to conduct these investigations have been developed over the last few years. This effort has yielded a detailed reproductive history questionnaire which has been tested in the field, the development of computer-based masterfile formats, and anlaytical programs. The data for several field studies (wives of male lead workers, wives of male workers exposed to carbon disulfide, and female pharmaceutical workers) have been collected and computerized. The analysis and final reports for these studies will be completed in FY 1982.

The results generated from these studies will add significantly to our understanding of the effects on the reproductive system (male and female) from certain occupational exposures and, depending on the results, these studies may provide important information to help set standards and protect the health of the workers.

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The rapid relay of toxicology data from DBBS has provided important information for expeditiously proceeding with a reproductive study of glycol ethers, which will be initiated fully in FY 1982. Contacts with other agencies that are now developing data are expected to produce similar benefits.

A new unit within DSHEFS has been established to focus on reproductive effects research in FY 1982. This unit will begin setting priorities, assessing the feasibility of conducting additional field studies, and expanding into other study designs. In addition to the glycol ethers project mentioned above, two other research projects will continue into FY 1982:

1. A cytogenetic study of workers in the pharmaceutical industry and workers exposed to low-level ionizing radiation.

2. A reproductive study of females exposed to polychlorinated biphenyls, which will evaluate neonatal deaths, miscarriages, stillborns, congenital defects, and low birth weight.

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000		
********REPRODUCTIVE EFFECTS********													A	933
													A	934
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE													A A	935
													A A	936
1. Behavioral Teratology of Cellosolves (K. Nelson, 684-8383)	81	83					A	c	a				AahyyA	938
(VOB-cCh-278)(1.0/7.6/35.0)(100/VOB-Ahy-278)													AahyyA	939
													AahyyA	940
.1 Complete peer review (2Q81)													AahyyA	941
.2 Submit final protocol to Director, DBBS (2Q81)													AahyyA	942
.3 Submit Hazard Data Sheet to staff (3Q81)													AahyyA	943
.4 Initiate cellosolve exposures (2Q81)													AahyyA	944
.5 Submit progress report to Director, DBBS			o	o	o	o							AahyyA	945
.6 Complete cellosolve exposures													AahyyA	946
a. 2-methoxyethanol (3Q81)													AahyyA	947
b. 2-butoxyethanol (4Q81)													AahyyA	948
c. 2-ethoxy-ethoxy ethanol			o										AahyyA	949
d. 2-ethoxyethanol acetate				o									AahyyA	950
.7 Initiate behavioral testing				o									AahyyA	951
.8 Initiate neurochemical analyses					o								AahyyA	952
.9 Complete neurochemical analyses						o							AahyyA	953
.10 Submit teratology report to Director, DBBS						o							AahyyA	954
.11 Complete behavioral testing (3Q83)													AahyyA	955
.12 Submit final project report to Director, DBBS (4Q83)													AahyyA	956
.13 Submit abstract to Director, NIOSH (4Q83)													AahyyA	957
.14 Submit project records to Q.A. Unit, DBBS (4Q83)													AahyyA	958
													AahyyA	959

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	PMEC	PrUN	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
2. Development of Teratogen Screening Methods (R. Schuler 684-8357) (VOO-cAh-340)(0.1/2.5/5.5)(100/VOO-Ahy-340)	81	83					A	b	a				AchyyA	962
													AchyyA	963
													AchyyA	964
.1 Consult Information Office (1Q81)													AchyyA	965
.2 Complete project peer review (1Q81)													AchyyA	966
.3 In-house studies													AchyyA	967
A. Mouse Teratology Screening Technique													AchyyA	968
a. Initiate positive control study (1Q81)													AchyyA	969
b. Complete positive control study (3Q81)													AchyyA	970
.4 Contract Teratology Studies (Four)													AchyyA	971
a. Initiate testing of chemicals (each contract)			o										AchyyA	972
b. Complete site visit				o									AchyyA	973
c. Review progress reports			o	o	o	o							AchyyA	974
d. Complete test					o								AchyyA	975
e. Receive final reports						o							AchyyA	976
f. Submit report to Director, DBBS						o							AchyyA	977
.5 Contract Teratology Screening													AchyyA	978
a. Submit RFCs to OAMS				o									AchyyA	979
b. Award contracts (3)					o								AchyyA	980
c. Initiate testing						o							AchyyA	981
d. Perform site visit (1Q83)													AchyyA	982
e. Review progress reports (1Q83)(2Q83)(3Q83)													AchyyA	983
f. Receive final reports (4Q83)													AchyyA	984
g. Submit report to Director, DBBS (4Q83)													AchyyA	985
.6 Submit progress report to Director, DBBS			o	o	o	o							AchyyA	986
.7 Submit final project report to Director, DBBS (4Q83)													AchyyA	987
.8 Submit abstract to Director, NIOSH (4Q83)													AchyyA	988
.9 Submit project records to Q.A. Unit, DBBS (4Q83)													AchyyA	989
													AchyyA	990

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
3. Development of Sperm Analysis Methods (B. Hardin, 684-8394)	81	83					A	b	a				AcyyyA	993
(VOO-cCy-342)(1.4/60.7/100.7)(100/VOO-Ayy-342)													AcyyyA	994
													AcyyyA	995
.1 Consult Information Office (1Q81)													AcyyyA	996
.2 Complete NIEHS site visit (2Q81)													AcyyyA	997
.3 Award FFS for sperm head morphology assay (2Q81)													AcyyyA	998
.4 Receive analysis of slides													AcyyyA	999
a. Propylene oxide (2Q81)													AcyyyA	1000
b. Ethoxyethanol (2Q81)													AcyyyA	1001
c. Ethylene oxide (2Q81)													AcyyyA	1002
.5 Submit progress reports to Director, DBBS			o	o	o	o							AcyyyA	1003
.6 Complete training and familiarization with videographic and			o										AcyyyA	1004
hamster ova systems													AcyyyA	1005
.7 Begin testing known antifertility agents			o										AcyyyA	1006
.8 Complete review of literature on biochemical markers			o										AcyyyA	1007
.9 Complete peer review				o									AcyyyA	1008
.10 Complete report on potential of videographic techniques						o							AcyyyA	1009
.11 Apply semen analysis methods in NIOSH field studies (1Q83)													AcyyyA	1010
.12 Submit final report to Director, DBBS (4Q83)													AcyyyA	1011
.13 Submit abstract to Director, NIOSH (4Q83)													AcyyyA	1012
.14 Submit project records to Q. A. Unit, DBBS (4Q83)													AcyyyA	1013
													AcyyyA	1014
4. Teratogen Screening Using Drosophila (R. Schuler, 684-8357)	81	83					A	c	a				AcyyyA	1017
(VOO-cCy-344)(0.6/262.0/280.0)(100/VOO-Ayy-344)													AcyyyA	1018
													AcyyyA	1019
.1 Hazard Data Sheet (H.D.S)													AcyyyA	1020
a. Develop H.D.S. (1,2,3,4Q81)													AcyyyA	1021
b. Submit H.D.S. to Director (1,2,3,4Q81)													AcyyyA	1022
c. Submit H.D.S. to all project staff (1,2,3,4Q81)													AcyyyA	1023
.2 Submit progress report to Director, DBBS			o	o	o	o							AcyyyA	1024
.3 Initiate development of Drosophila teratogen screening													AcyyyA	1025
methodology (1Q81)													AcyyyA	1026
.4 Complete development of screening methodology (4Q81)													AcyyyA	1027
.5 Initiate validation testing			o										AcyyyA	1028
.6 Complete validation testing						o							AcyyyA	1029
.7 Develop RFC					o								AcyyyA	1030
.8 Complete peer review						o							AcyyyA	1031
.9 Submit RFC to Director, DBBS						o							AcyyyA	1032
.10 Submit RFC to OAMS						o							AcyyyA	1033
.11 Award Contract (1Q83)													AcyyyA	1034
.12 Submit final report to Director, DBBS (4Q83)													AcyyyA	1035
.13 Submit abstract to Director, NIOSH (4Q83)													AcyyyA	1036
.14 Submit project records to Q.A. Unit, DBBS (4Q83)													AcyyyA	1037
													AcyyyA	1038

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	PHASE CH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
5. Male Reproduction: Glycol Ethers (B. Hardin 684-8394) (0.3/6.5/15.0)(100/VOO-Ahy-309)	82	83					A	a	a				AchyyA	1041
													AchyyA	1042
													AchyyA	1043
.1 Submit draft protocol to Director, DBBS			o										AchyyA	1044
.2 Complete peer review			o										AchyyA	1045
.3 Submit progress report to Director, DBBS			o	o	o	o							AchyyA	1046
.4 Drosophila Tests													AchyyA	1047
a. Submit RFC to OAMS				o									AchyyA	1048
b. Award Contract					o								AchyyA	1049
c. Perform site visit (3Q83)						o							AchyyA	1050
d. Initiate exposures						o							AchyyA	1051
e. Complete exposures (2Q83)													AchyyA	1052
f. Receive draft final report (3Q83)													AchyyA	1053
g. Submit final report to Director, DBBS (3Q83)													AchyyA	1054
h. Submit abstract to Director, NIOSH (3Q83)													AchyyA	1055
.5 Mammalian Test													AchyyA	1056
a. Submit RFC to OAMS				o									AchyyA	1057
b. Award contract					o								AchyyA	1058
c. Complete site visit (4Q83)						o							AchyyA	1059
d. Initiate exposures						o							AchyyA	1060
e. Complete exposures (3Q83)													AchyyA	1061
f. Receive draft final report (4Q83)													AchyyA	1062
g. Submit final report to Director, DBBS (4Q83)													AchyyA	1063
h. Submit abstract to Director, NIOSH (4Q83)													AchyyA	1064
.6 Submit final project report to Director, DBBS (4Q83)													AchyyA	1065
.7 Submit abstract to Director, NIOSH (4Q83)													AchyyA	1066
.8 Submit project records to Q. A. Unit, DBBS (4Q83)													AchyyA	1067
													AchyyA	1068

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	2Q	COMPLETION 3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
6. Teratogenic Assessment: Glycol Ethers (B. Hardin 684-8394) (0.2/222.4/228.4)(100/VOO-Ahy-313)	82	83					A	b	a				AchyyA	1071
													AchyyA	1072
													AchyyA	1073
.1 Complete peer review			o										AchyyA	1074
.2 Submit final study protocol to Director, DBBS			o										AchyyA	1075
.3 Submit progress report to Director, DBBS			o	o	o	o							AchyyA	1076
.4 Teratogenic Assessment of 3 Glycol Ethers													AchyyA	1077
a. Submit RFC to OAMS			o										AchyyA	1078
b. Award Contract					o								AchyyA	1079
c. Complete site visit (1Q83)((3Q83)						o							AchyyA	1080
d. Initiate animal exposures						o							AchyyA	1081
e. Complete animal exposures (3Q83)													AchyyA	1082
f. Receive draft final report (3Q83)													AchyyA	1083
g. Submit final report to Director, DBBS (4Q83)													AchyyA	1084
h. Submit abstract to Director, NIOSH (4Q83)													AchyyA	1085
.5 Teratogenic Assessment of Ethylene Oxide, Propylene Oxide, and Butyl Acetate													AchyyA	1086
													AchyyA	1087
a. Award contract (260-80-0013)(4Q80)													AchyyA	1088
b. Initiate animal exposures (1Q81)													AchyyA	1089
c. Submit contract modification to OAMS			o										AchyyA	1090
d. Complete site visits (4Q80)(2Q81)(4Q81)				o									AchyyA	1091
e. Award modification			o										AchyyA	1092
f. Complete animal exposures			o										AchyyA	1093
g. Receive draft final report					o								AchyyA	1094
h. Submit final report to Director, DBBS					o								AchyyA	1095
i. Submit abstract to Director, NIOSH						o							AchyyA	1096
.6 Submit final project report to Director, DBBS (4Q83)													AchyyA	1097
.7 Submit abstract to Director, NIOSH (4Q83)													AchyyA	1098
.8 Submit project records to Q. A. Unit, DBBS (4Q83)													AchyyA	1099
													AchyyA	1100

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
7. Toxicity of Aliphatic and Aromatic Amines (H. Plotnick 684-8496) (VOO-cXt-337)(0.1/1.5/4.5)(100/VOO-Ahy-337)	81	84					A	a	a				AchyyA	1103
													AchyyA	1104
													AchyyA	1105
.1 Develop RFC (1Q81)													AchyyA	1106
.2 Complete peer review (1Q81)													AchyyA	1107
.3 Submit RFC to Director, DBBS (1Q81)													AchyyA	1108
.4 Submit RFC to OAMS (1Q81)													AchyyA	1109
.5 Award contract (4Q81)													AchyyA	1110
.6 Submit progress report to Director, DBBS			o	o	o	o							AchyyA	1111
.7 Initiate LC50 studies			o										AchyyA	1112
.8 Make site visit to contractor (1Q83)				o		o							AchyyA	1113
.9 Complete LC50 studies					o								AchyyA	1114
.10 Initiate subchronic studies					o								AchyyA	1115
.11 Complete 6-month exposure (1Q83)													AchyyA	1116
.12 Complete histopathologic evaluation (3Q83)													AchyyA	1117
.13 Review draft final report from contractor (4Q83)													AchyyA	1118
.14 Submit final report to Director, DBBS (1Q84)													AchyyA	1119
.15 Submit abstract to Director, NIOSH (1Q84)													AchyyA	1120
.16 Submit project records to Q.A. Unit, DBBS (1Q84)													AchyyA	1121
													AchyyA	1122

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
8. Biotransformation of Priority Chemicals (H. Plotnick, 684-8496) (VOO-cXh-333)(2.0/94.0/150.0)(0.2/5.0/11.0)(100/VOO-Ahy-333)	80	84					A	c	a				AchyyA	1125
													AchyyA	1126
													AchyyA	1127
.1 Submit progress report to Director, DBBS			o	o	o	o							AchyyA	1128
.2 Submit project protocol to Director, DBBS (3Q81)													AchyyA	1129
.3 2-Ethoxyethanol Studies													AchyyA	1130
a. Initiate pilot biotransformation study (3Q81)													AchyyA	1131
b. Complete pilot biotransformation study (4Q81)													AchyyA	1132
c. Initiate biotransformation study			o										AchyyA	1133
d. Complete biotransformation study						o							AchyyA	1134
e. Submit report to Director, DBBS (1Q83)													AchyyA	1135
.4 2-Methoxyethanol Studies													AchyyA	1136
a. Initiate biotransformation study			o										AchyyA	1137
b. Complete biotransformation study						o							AchyyA	1138
c. Submit report to Director, DBBS (1Q83)													AchyyA	1139
.5 Bis(2-methoxyethyl)ether Studies													AchyyA	1140
a. Initiate biotransformation study			o										AchyyA	1141
b. Complete biotransformation study						o							AchyyA	1142
c. Submit report to Director, DBBS (1Q83)													AchyyA	1143
.6 Consultative Services													AchyyA	1144
a. Consult on structure/activity relationships			o	o	o	o							AchyyA	1145
b. Present short course on S/A relationships				o									AchyyA	1146
.7 Submit manuscript for publication (1Q83)													AchyyA	1147
.8 FY 83 studies of new chemical class													AchyyA	1148
a. Initiate biotransformation study (1Q83)													AchyyA	114[illegible]
b. Complete biotransformation study (4Q83)													AchyyA	1150
c. Submit report to Director, DBBS (1Q84)													AchyyA	1151
.9 Submit final project report to Director, DBBS (1Q84)													AchyyA	1152
.10 Submit abstract to Director, NIOSH (1Q84)													AchyyA	1153
.11 Submit project records to Q.A. Unit, DBBS (1Q84)													AchyyA	1154
													AchyyA	1155

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	PMECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
9. Reproduction and Low Frequency RF Radiation (J. Lary, 684-8482)	82	85					A	c	a				AeafyA	1158
(2.8/16.0/100.0)(2.8/16.0/100.0)(2.0/14.0/69.0)													AeafyA	1159
(100/VOG-Aaf-368)													AeafyA	1160
													AeafyA	1161
.1 Induction Heater Survey													AeafyA	1162
a. Identify manufacturers of induction heaters			o										AeafyA	1163
b. Contact users and arrange walk-through surveys				o									AeafyA	1164
c. Estimate population exposed				o									AeafyA	1165
d. Determine instrument needs					o								AeafyA	1166
e. Initiate surveys of induction heaters					o								AeafyA	1167
f. Complete surveys of induction heaters						o							AeafyA	1168
g. Submit report to Director, DBBS						o							AeafyA	1169
.2 Reproduction Study													AeafyA	1170
a. Initiate literature review						o							AeafyA	1171
b. Complete literature review						o							AeafyA	1172
c. Contact information office about Peer Review notice						o							AeafyA	1173
d. Initiate writeup of project protocol						o							AeafyA	1174
e. Complete writeup of project protocol (1Q83)													AeafyA	1175
f. Complete peer review (2Q83)													AeafyA	1176
g. Submit final project protocol to Director, DBBS (2Q83)													AeafyA	1177
h. Prepare SOPs for RF reproduction research (3Q83)													AeafyA	1178
i. Initiate RF male reproduction study (3Q83)													AeafyA	1179
j. Complete RF male reproduction study (3Q84)													AeafyA	1180
k. Initiate RF female reproduction study (3Q84)													AeafyA	1181
l. Complete RF female reproduction study (2Q85)													AeafyA	1182
m. Submit final project report to Director, DBBS (2Q85)													AeafyA	1183
n. Submit abstract of final report to Director, NIOSH (2Q85)													AeafyA	1184
o. Submit project records to Q.A. Unit, DBBS (2Q85)													AeafyA	1185
.3 Submit progress report to Director, DBBS			o	o	o	o							AeafyA	1186
													AeafyA	1187

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
DIVISION OF RESPIRATORY DISEASE STUDIES													C A	1190
													C A	1191
10. InVitro Mutagenesis Studies	81	82					A	b	a				CddduyA	1192
(Ong T 304-599-7516)(VKC-cCB-118)													CddduyA	1193
(100/VCd-Adu-118)													CddduyA	1194
													CddduyA	1195
.1 Complete validation of arabinose assay system with													CddduyA	1196
environmental samples			o										CddduyA	1197
.2 Complete evaluation of arabinose assay system for the													CddduyA	1198
detection of mutagens in urine samples				o									CddduyA	1199
.3 Complete evaluation of storage effect on the recovery													CddduyA	1200
of mutagens from urine samples					o								CddduyA	1201
.4 Complete development of new tester strains for insitu													CddduyA	1202
mutagenesis testings					o								CddduyA	1203
.5 Recovery of different chemicals from urine samples													CddduyA	1204
study completed					o								CddduyA	1205
.6 Complete the final report and submit abstract to the													CddduyA	1206
Director, NIOSH, with copy of report and abstract to DTS						o							CddduyA	1207
													CddduyA	1208
11. Mutagenic Monitoring for High Risk Workers	80	84					A	b	b				CdiduA	1211
(Ong T 304-599-7516) (VKC-ciB-112)(0.5/118.0/145.0)													CdiduA	1212
(0.5/15.0/32.0)(100/VCd-Aid-112)													CdiduA	1213
													CdiduA	1214
.1 OMB approval received					o								CdiduA	1215
.2 Walk-thru survey completed						o							CdiduA	1216
.3 Complete selection of workers and control group for testing						o							CdiduA	1217
.4 Complete air samplings and bioassays for the extracts													CdiduA	1218
of air particles (1Q83)													CdiduA	1219
.5 Complete administration of Medical History Questionnaire													CdiduA	1220
and collection of blood and urine specimens for the													CdiduA	1221
first experiment (1Q83)													CdiduA	1222
.6 Complete urine and cytogenetic analysis for the first													CdiduA	1223
experiment (3Q83)													CdiduA	1224
.7 Complete collection of blood and urine specimens for the													CdiduA	1225
second experiment (3Q83)													CdiduA	1226
.8 Complete urine and cytogenetic analysis for the second													CdiduA	1227
experiment (4Q83)													CdiduA	1228
.9 Complete necessary repeat experiments (1Q84)													CdiduA	1229
.10 Review final draft report (2Q84)													CdiduA	1230
.11 Receive completed final report (3Q84)													CdiduA	1231
.12 Submit final report and abstract to the Director, NIOSH													CdiduA	1232
with copy of report and abstract to DTS (4Q84)													CdiduA	1233
													CdiduA	1234

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES FY	NPF $1000	TF $1000		
DIVISION OF SURVEILLANCE, HAZARD EVALUATIONS AND FIELD STUDIES													D A	1237
													D A	1238
12. Industrywide Study of Reproductive Effects of Glycol Ethers	82	83					A	c	a				DbhyyA	1239
(Howard Ludwig - 513-684-3255)													DbhyyA	1240
(1.6/140.0/180.0)(100/VMH-Ahy-578)													DbhyyA	1241
													DbhyyA	1242
A. Complete tripartite review.			o										DbhyyA	1243
B. Initiate walk-through surveys.				o									DbhyyA	1244
C. Complete walk-through surveys.					o								DbhyyA	1245
D. Complete industrial hygiene reports					o								DbhyyA	1246
E. Determine if epi/medical study is feasible.						o							DbhyyA	1247
F. Finalize protocol and establish milestones for future fiscal years (2Q83).													DbhyyA	1248
													DbhyyA	1249
													DbhyyA	1250
13. Cytogenetic Epidemiologic Studies	80	84					A	b	a				DbayyA	1253
(Sandy Leffingwell - 513-684-2145)													DbayyA	1254
(0.8/165.0/180.0)(0.8/165.0/180.0)(100/VMH-Aay-565)													DbayyA	1255
													DbayyA	1256
A. Cytotoxic Drugs													DbayyA	1257
1. Complete sample collection (2Q81).													DbayyA	1258
2. Determine need for additional studies.				o									DbayyA	1259
3. Complete walk-through surveys, if needed.					o								DbayyA	1260
4. Establish milestones for next fiscal year.						o							DbayyA	1261
													DbayyA	1262
B. Portsmouth Naval Shipyard													DbayyA	1263
1. Complete protocol (3Q81).													DbayyA	1264
2. Submit RFC to OAMS for laboratory evaluations (210-82-).			o										DbayyA	1265
													DbayyA	1266
3. Complete arrangements with Navy.				o									DbayyA	1267
4. Award contract.						o							DbayyA	1268
5. Establish milestones for next fiscal year.						o							DbayyA	1269
													DbayyA	1270
C. Other Studies													DbayyA	1271
1. Select agent(s).				o									DbayyA	1272
2. Initiate cohort search.					o								DbayyA	1273
3. Complete SPRG review.						o							DbayyA	1274
4. Set milestones for remainder of project (2Q83).													DbayyA	1275
													DbayyA	1276

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
14. Medical, Reproductive and Industrial Hygiene Study of Exposure to Carbon Disulfide (Sherry Selevan - 513-684-2145) (100/VMH-Ahy-569)	79	82					A	c	a				DbhyyA	1279
													DbhyyA	1280
													DbhyyA	1281
													DbhyyA	1282
A. Complete coding of pregnancy outcome questionnaires (3Q79).													DbhyyA	1283
B. Complete subject notification (3Q80).													DbhyyA	1284
C. Complete industrial hygiene reports (3Q81).													DbhyyA	1285
D. Initiate final draft on reproductive and medical studies.			o										DbhyyA	1286
E. Complete data analysis.				o									DbhyyA	1287
F. Complete final report and submit abstract to Director, NIOSH and copy to DTS.					o								DbhyyA	1288
													DbhyyA	1289
													DbhyyA	1290
15. The Effect of Polychlorinated Biphenyls on Reproductive Outcome (NCI)(Mike Rosenberg - 513-684-3593) (0.1/7.0/10.0)(VMH-Ayy-606)	81	84					A	b	a				DbyyyA	1293
													DbyyyA	1294
													DbyyyA	1295
													DbyyyA	1296
A. Award contract 210-81-5102 (4Q81).													DbyyyA	1297
B. Complete confirmation of cohort and categorization by exposure.			o										DbyyyA	1298
													DbyyyA	1299
C. Initiate case location and interviews.				o									DbyyyA	1300
D. Complete 25% of interviews and confirm adverse outcomes.					o								DbyyyA	1301
E. Complete 40% of interviews and confirm adverse outcomes.						o							DbyyyA	1302
F. Complete interviews and confirm adverse outcomes (3Q83).													DbyyyA	1303
G. Complete final report and submit abstract to Director, NIOSH and copy to DTS (1Q84).													DbyyyA	1304
													DbyyyA	1305
													DbyyyA	1306
16. Fetal Mortality Study (Nina Lalich - 513-684-3284) (0.2/20.0/25.0)(100/VMO-Ayy-618)	77	83					A	g	a				DcyyyA	1309
													DcyyyA	1310
													DcyyyA	1311
A. Continue IA with NCHS (1Q78).													DcyyyA	1312
B. Select and develop suitable analyses techniques (3Q79).													DcyyyA	1313
C. Evaluate pre-test (1Q80).													DcyyyA	1314
D. Complete case identification (3Q81).													DcyyyA	1315
E. Complete IA modification and submit to OPPE (IA78-10).			o										DcyyyA	1316
F. Complete follow-up for non-respondents.				o									DcyyyA	1317
G. Complete data editing from mother's questionnaire.					o								DcyyyA	1318
H. Complete data editing from hospital, physician and x-ray technician questionnaires.						o							DcyyyA	1319
													DcyyyA	1320
I. Complete final report and submit abstract to Director, NIOSH and copy to DTS (4Q83).													DcyyyA	1321
													DcyyyA	1322
													DcyyyA	1323

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
17. Case Comparision Study of Parental Employment and Fetal Outcome (Joyce Salg - 513-684-3284) (100/VMO-Ayy-626)	81	82					A	b	a				DcyyyA	1326
													DcyyyA	1327
													DcyyyA	1328
													DcyyyA	1329
A. Award Contract 210-81-5004 (3Q81).													DcyyyA	1330
B. Select sample of live birth and fetal death certificates.			o										DcyyyA	1331
C. Complete abstraction, coding and verification.				o									DcyyyA	1332
D. Receive computer tape and documentation from contractor.					o								DcyyyA	1333
E. Complete final report and submit abstract to Director, NIOSH and copy to DTS.						o							DcyyyA	1334
													DcyyyA	1335
													DcyyyA	1336
18. Surveillance of Parental Employment and Spontaneous Abortion (Joyce Salg 513-684-3284) (0.1/7.0/10.0)(100/VMO-Ayy-643)	81	83					A	b	a				DcyyyA	1339
													DcyyyA	1340
													DcyyyA	1341
													DcyyyA	1342
A. Award contract 210-81-5002 (3Q81).													DcyyyA	1343
B. Complete data editing.			o										DcyyyA	1344
C. Complete statistical analyses.				o									DcyyyA	1345
D. Complete draft final report.					o								DcyyyA	1346
E. Obtain final report from contractor.						o							DcyyyA	1347
F. Complete final report and submit abstract to Director, NIOSH and copy to DTS (1Q83).													DcyyyA	1348
													DcyyyA	1349
													DcyyyA	1350
OFFICE OF EXTRAMURAL COORDINATION AND SPECIAL PROJECTS													F A	1352
													F A	1353
19. Research and Demonstration Grants - Reproductive (Moshell, 443-4493) (VCE-tXy-889)(0/0.5/0.5)(100/VCE-Ayy-899)	71	C					A	e	a				FayyyA	1354
													FayyyA	1355
													FayyyA	1356
													FayyyA	1357
													FayyyA	1358

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NEUROTOXIC EFFECTS

Major episodes of neurotoxicity produced by occupational exposures (such as kepone, leptophos, polybrominated biphenyls) have dramatized the dangers of neurotoxic effects, but a far greater impact is seen in diverse exposures throughout industries where there are many minor episodes involving a much larger total number of workers (e.g., through use of solvents, pesticides, heavy metals). Industrial neurotoxins may produce effects ranging from mild to severe and include motor changes (inability to walk, tremors, loss of fine coordination), sensory changes (loss or diminution in vision, hearing, touch), and cognitive changes (loss of alertness, judgmental lapses, personality changes). Such effects are particularly serious because of the critical nature of the nervous system, the relative lack of excess capacity to replace lost tissue, and the irreversability of such effects. These neurotoxic effects represent not only major health problems but, prior to detection and treatment, they also may be a primary cause of workplace and off-the-job accidents. Further, it may be that the more insidious problems induced by chronic exposures lie undetected because the neurotoxicty is associated with advancing age rather than the cumulative effects of lifelong occupational exposure.

Division of Biomedical and Behavioral Sciences

DBBS research in neurobehavioral toxicology is directed toward the identification of chemical hazards, development and application of tests to uncover and characterize such effects, and reevaluation and development of standards based on neurotoxic endpoints. One study established an interaction between an industrial solvent, 2-ethoxyethanol, and ethanol, an interaction which affects offspring of pregnant rats exposed only during pregnancy. The results suggest that workplace exposures may interact with substances ingested outside regular work hours. Other studies have demonstrated adverse neurobehavioral effects of such chemicals as ethylene oxide and propylene oxide and the methyl halides.

In FY 1982, test batteries for workplace screening and evaluation of behavioral performance, psychological state, and neurophysiological functions that may be adversely affected by chemical exposures will be developed:

1. To assess the reliability and validity of such batteries, cross sectors of worker groups who have known exposures to certain chemicals and others without such a history will be evaluated on these tests.

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2. Compounds representative of major chemical classes and found in many work settings will be brought into the laboratory for evaluation of their singular and interactive effects, using the same test batteries. Chemicals representative of fumigation and spray paint operations will be tested for neurobehavioral effects.

3. Worksite studies on fumigators and spray painters will be performed to evaluate the degree of neurologic impairment associated with workers' exposure conditions.

Division of Surveillance, Hazard Evaluations, and Field Studies

DSHEFS is considering several future epidemiologic studies to examine the neurotoxic effects of certain chemicals on exposed workers. Currently, this effort involves the identification of worker populations where there are exposures to chemicals that have been shown to be neurotoxic in laboratory animals, such as the class of hexanes. This effort is being conducted in collaboration with DBBS. As an ongoing effort, neurotoxic effects are being evaluated as one part of a cross-sectional medical study of workers exposed to carbon disulfide.

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000			
********NEUROTOXIC EFFECTS********														C	1361
														C	1362
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE													A	C	1363
													A	C	1364
1. Test of Environmental Toxins on Behavior of Mice (706)--													A	C	1365
4/30/83--$74,002--W. Anger													A	C	1366
													A	C	1367
2. Occupational Hazards of Acrylamide and Hexane (851)--													A	C	1368
4/30/83--$94,839--W. Anger													A	C	1369
													A	C	1370
3. Chronobiology and Occupational Health Hazards (952)--													A	C	1371
11/30/84--$80,106--M. Colligan													A	C	1372
													A	C	1373
4. New Behavioral Tests for Occupational Solvent (973)--													A	C	1374
11/30/84--$80,106--M. Colligan													A	C	1375
													A	C	1376
5. Lead Exposure: Electrophysiologic/Psychologic Effects (984)--													A	C	1377
3/31/83--$116,7750--V.Putz													A	C	1378
													A	C	1379
6. Potentiation of Haloaklane Renal Injury by Ketones (986)--													A	C	1380
3/31/84--$52,398--T. Lewis--Digestive													A	C	1381
													A	C	1382

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
7. Indices of Neurotoxic Effects in Workers (K. Anger, 684-8383) (1.5/53.5/100.5)(1.5/165.5/212.5)(1.0/10.5/43.0) (1.0/1.0/33.5)(100/VOB-Chp-293) (100/VOB-Chp-294)	82	86					C	f	a				AahpeC	1384
													AahpeC	1385
													AahpeC	1386
													AahpeC	1387
.1 Submit progress report to Director, DBBS			o	o	o	o							AahpeC	1388
.2 Conference: Human Neurotoxicity Test Methods													AahpeC	1389
a. Receive IA from EPA			o										AahpeC	1390
b. Complete conference plan			o										AahpeC	1391
c. Hold conference						o							AahpeC	1392
d. Submit proceedings to Director, DBBS (2Q83)													AahpeC	1393
e. Publish proceedings (4Q83)													AahpeC	1394
.3 Lab and Field Studies													AahpeC	1395
a. Submit cooperative agreement to OAMS			o										AahpeC	1396
b. Award cooperative agreement				o									AahpeC	1397
c. Submit draft protocol to Director, DBBS						o							AahpeC	1398
d. Hold peer review						o							AahpeC	1399
e. Submit project protocol to HSRB (1Q83)													AahpeC	1400
f. Submit project protocol to OMB (1Q83)													AahpeC	1401
g. Receive HSRB clearance (1Q83)													AahpeC	1402
h. Receive OMB clearance (3Q83)													AahpeC	1403
i. Identify industries using neurotoxic chemicals (1Q83)													AahpeC	1404
j. Instrument test batteries (2Q83)													AahpeC	1405
k. Initiate laboratory tests of Cincinnati workers (3Q83)													AahpeC	1406
l. Conduct field tests for neurotoxin A (4Q83)													AahpeC	1407
m. Conduct field tests for neurotoxin B (2Q84)													AahpeC	1408
n. Conduct field tests for neurotoxin C (4Q84)													AahpeC	1409
o. Submit report on neurotoxin A to Director, DBBS (3Q84)													AahpeC	1410
p. Award second cooperative agreement (2Q84)													AahpeC	1411
q. Complete laboratory study of Cincinnati workers (1Q85)													AahpeC	1412
r. Conduct field tests for neurotoxin D (1Q85)													AahpeC	1413
s. Conduct field tests for neurotoxin E (3Q85)													AahpeC	1414
t. Conduct field tests for neurotoxin F (4Q85)													AahpeC	1415
u. Submit report on neurotoxins B, C to Director, DBBS (3Q85)													AahpeC	1416
													AahpeC	1417
v. Submit report on neurotoxins D,E,F to Dir., DBBS (4Q86)													AahpeC	1418
.4 Submit final project report to Director, DBBS (4Q86)													AahpeC	1419
.5 Submit abstract to Director, NIOSH (4Q86)													AahpeC	1420
.6 Submit project records to Q.A. Unit, DBBS (4Q86)													AahpeC	1421
													AahpeC	1422

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
8. Neurobehavioral Methods for Toxic Agents (D. Chrislip 684-8383) (VOB-cAE-270)(2.0/22.2/70.0)(100/VOB-Chy-270)	79	83					C	b	a				AahyyC	1425
													AahyyC	1426
													AahyyC	1427
													AahyyC	1428
.1 Complete peer review (2Q80)													AahyyC	1429
.2 Submit progress report to Director, DBBS			o	o	o	o							AahyyC	1430
.3 Methods Development - NCTR													AahyyC	1431
a. Execute IA-year 1 (4Q81)													AahyyC	1432
b. Execute IA-year 2				o									AahyyC	1433
c. Review progress reports				o		o							AahyyC	1434
d. Perform site visit				o		o							AahyyC	1435
e. Receive draft report on interlab comparisons (3Q83)													AahyyC	1436
f. Submit report to Director, DBBS (4Q83)													AahyyC	1437
.4 Individual Agent Screening													AahyyC	1438
a. Receive protocol approval by Director, DBBS (3Q80)													AahyyC	1439
b. Initiate TOCP and litnium exposures (3Q80)													AahyyC	1440
c. Complete development of new neuromotor tests (4Q80)													AahyyC	1441
d. Perform serial neurobehavioral tests (1,2,3,4Q81)			o	o	o	o							AahyyC	1442
e. Initiate Al administrations				o									AahyyC	1443
f. Perform serial neurobehavioral tests				o	o	o							AahyyC	1444
g. Complete TOCP and lithium testing (3Q83)													AahyyC	1445
h. Complete Al testing (4Q83)													AahyyC	1446
.5 Submit final project report to Director, DBBS (4Q83)													AahyyC	1447
.6 Submit abstract to Director, NIOSH (4Q83)													AahyyC	1448
.7 Submit project records to Q.A. Unit, DBBS (4Q83)													AahyyC	1449

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000		
9. Neurobehavioral Effects of Spray Paint Agents (V. Putz 684-8383) (VOB-cAh-272)(2.0/50.0/87.5)(100/VOB-Chy-272)	79	83					C	b	a				AahyyC	1452
													AahyyC	1453
													AahyyC	1454
.1 Complete peer review (3Q79)													AahyyC	1455
.2 Instrument new cognitive tests (4Q79)													AahyyC	1456
.3 Acute Laboratory Studies													AahyyC	1457
a. Complete toluene exposures (3Q80)													AahyyC	1458
b. Complete MEK exposures (2Q81)													AahyyC	1459
c. Initiate new lab construction (3Q81)													AahyyC	1460
d. Complete MEK and toluene combined exposures (4Q81)													AahyyC	1461
e. Complete new lab				o									AahyyC	1462
f. Initiate acetone exposures					o								AahyyC	1463
g. Submit MEK & toluene report to Director, DBBS						o							AahyyC	1464
h. Complete acetone exposures						o							AahyyC	1465
i. Initiate MIBK exposures (1Q83)													AahyyC	1466
j. Complete MIBK exposures (2Q83)													AahyyC	1467
k. Initiate MIBK & Acetone exposures (2Q83)													AahyyC	1468
l. Complete combined exposures (3Q83)													AahyyC	1469
m. Submit report on MIBK & acetone to Director, DBBS (4Q83)													AahyyC	1470
.4 Worksite Study													AahyyC	1471
a. Award contract (4Q80)													AahyyC	1472
b. Complete worker testing (4Q81)													AahyyC	1473
c. Submit final report to Director, DBBS						o							AahyyC	1474
d. Submit abstract to Director, NIOSH						o							AahyyC	1475
.5 Submit progress report to Director, DBBS			o	o	o	o							AahyyC	1476
.6 Submit final project report to Director, DBBS (4Q83)													AahyyC	1477
.7 Submit abstract to Director, NIOSH (4Q83)													AahyyC	1478
.8 Submit project records to Q.A. Unit, DBBS (4Q83)													AahyyC	1479
													AahyyC	1480

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
10. Neurotoxicity Evaluations of Fumigators (K. Anger 684-8383) (VOB-bAe-287)(1.2/110.0/150.0)(100/VOB-Ceh-287)	81	83					C	b	a				AaehyC	1483
													AaehyC	1484
													AaehyC	1485
.1 Complete peer review (2Q81)													AaehyC	1486
.2 Submit progress report to Director, DBBS			o	o	o	o							AaehyC	1487
.3 Methyl Bromide Worksite Study													AaehyC	1488
a. Submit study protocol to Director, DBBS (3Q81)													AaehyC	1489
b. Receive HSRB approval and OMB exemption (4Q81)													AaehyC	1490
c. Initiate testing of structural fumigators				o									AaehyC	1491
d. Complete worker testing					o								AaehyC	1492
e. Submit report on structural fumigators to Director, DBBS						o							AaehyC	1493
f. Initiate testing of soil fumigators (2Q83)													AaehyC	1494
g. Complete testing of soil fumigators (3Q83)													AaehyC	1495
h. Submit report on soil fumigators to Director, DBBS (4Q83)													AaehyC	1496
.4 Carbon Tetrachloride/CS2 Worksite Study													AaehyC	1497
a. Submit RFC to Director, DBBS and OAMS (4Q81)													AaehyC	1498
b. Award feasibility evaluation contract				o									AaehyC	1499
c. Submit feasibility contract report to Director, DBBS						o							AaehyC	1500
d. Submit study protocol to Director, DBBS						o							AaehyC	1501
e. Submit protocol to HSRB						o							AaehyC	1502
f. Receive HSRB approval						o							AaehyC	1503
g. Initiate testing of commodity fumigators (1Q83)													AaehyC	1504
h. Complete testing of 300 commodity fumigators (3Q83)													AaehyC	1505
i. Submit report on commodity fumigators to Director, DBBS (4Q83)													AaehyC	1506
													AaehyC	1507
.5 Submit final project report to Director, DBBS (4Q83)													AaehyC	1508
.6 Submit abstract to Director, NIOSH (4Q83)													AaehyC	1509
.7 Submit project records to Q.A. Unit, DBBS (4Q83)													AaehyC	1510
													AaehyC	1511

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
11. Neurotoxicity of Straight-Chain Hexacarbons (J. Russo, 684-8383) (1.5/176.8/223.8)(2.0/11.8/58.8)(1.5/10.8/61.3)(100/VOB-Chy-295)	82	86					C	c	a				AahyyC	1514
													AahyyC	1515
													AahyyC	1516
.1 Complete literature review				o									AahyyC	1517
.2 Complete peer review					o								AahyyC	1518
.3 Complete compound selection						o							AahyyC	1519
.4 Complete hazard information sheets						o							AahyyC	1520
.5 Initiate range finding studies for subchronic exposures						o							AahyyC	1521
.6 Submit RFC for neuropathology evaluations to Director, DBBS						o							AahyyC	1522
.7 Submit RFC to OAMS						o							AahyyC	1523
.8 Submit progress report to Director, DBBS			o	o	o	o							AahyyC	1524
.9 Complete range finding studies for subchronic exposures (1Q83)													AahyyC	1525
													AahyyC	1526
.10 Complete SOPs for subchronic exposure phase (1Q83)													AahyyC	1527
.11 Award contract for neuropathology evaluations (2Q83)													AahyyC	1528
.12 Initiate subchronic exposures (2Q83)													AahyyC	1529
.13 Conduct serial neurobehavioral tests (2,3,4Q83)													AahyyC	1530
.14 Complete subchronic exposures (4Q83)													AahyyC	1531
.15 Submit initial report to Director, DBBS (4Q83)													AahyyC	1532
.16 Complete SOPs for acute exposure phase (1Q84)													AahyyC	1533
.17 Initiate acute exposures (2Q84)													AahyyC	1534
.18 Conduct neurobehavioral tests (2,3,4Q84)													AahyyC	1535
.19 Complete acute exposures (4Q84)													AahyyC	1536
.20 Prepare tissue for neuropathology evaluations (1Q85)													AahyyC	1537
.21 Submit tissue for neuropathology evaluations (1Q85)													AahyyC	1538
.22 Complete neuropathology evaluations (2Q85)													AahyyC	1539
.23 Submit final contract report to Director, DBBS (3Q85)													AahyyC	1540
.24 Submit final project report to Director, DBBS (3Q85)													AahyyC	1541
.25 Submit abstract of final report to Director, NIOSH (3Q85)													AahyyC	1542
.26 Submit project records to Q.A. Unit, DBBS (4Q85)													AahyyC	1543
													AahyyC	1544

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
12. Neurotoxicity of Ethylene & Propylene Oxide (J. Setzer 684-8383) (VOB-cAh-264)(100/VOB-Chy-264)	78	82					C	c	a				AahyyC	1547
													AahyyC	1548
													AahyyC	1549
.1 Complete peer review (1Q78)													AahyyC	1550
.2 Complete baseline testing (1Q79)													AahyyC	1551
.3 Initiate inhalation exposures (3Q79)													AahyyC	1552
.4 Perform serial neurological tests (4Q79)(1Q-4Q80)(1Q81)													AahyyC	1553
.5 Submit neurochemistry RFC to Director, DBBS (2Q81)													AahyyC	1554
.6 Submit RFC to OAMS (2Q81)													AahyyC	1555
.7 Conduct final neurological tests (3Q81)													AahyyC	1556
.8 Perform terminal sacrifice (4Q81)													AahyyC	1557
.9 Award RFC for neuropathology (3Q81)													AahyyC	1558
.10 Submit progress report to Director, DBBS			o	o	o	o							AahyyC	1559
.11 Receive contractor's results			o										AahyyC	1560
.12 Complete final report					o								AahyyC	1561
.13 Submit final report to Director, DBBS					o								AahyyC	1562
.14 Submit abstract of final report to Director, NIOSH					o								AahyyC	1563
.15 Submit project records to Q.A. Unit, DBBS						o							AahyyC	1564
													AahyyC	1565
OFFICE OF EXTRAMURAL COORDINATION AND SPECIAL PROJECTS													F C	1567
													F C	1568
13. Research and Demonstration Grants - Neurotoxic Effects (Moshall, 443-4493) (0/0.7/0.7)(100/VCE-Cyy-892)	71	C					C	e	a				FayyyC	1569
													FayyyC	1570
													FayyyC	1571
													FayyyC	1572

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INJURY/TRAUMA

Annually, approximately one of every ten workers employed in the private sector sustains an occupational injury. In the more hazardous industries the injury rate is significantly greater. In 1979, work accidents were responsible for 13,200 deaths; additionally, roughly 2.2 million workers experienced disabling injuries, of which 80,000 were permanently disabled. The economic impact of such workplace accidents is staggering. Data from SSA indicate the cost of workers' compensation payments to be approximately $9.7 billion of which $3.0 billion was for medical and hospitalization costs and $6.7 billion was for wage compensation. These rapidly increasing costs are up 14 percent from the previous year and up 314 percent from 10 years ago. The 1978 indirect costs from occupational injuries including lost productivity were $12.6 billion, an increase of 19 percent from 1977. Overall in 1979, workplace accidents cost our Nation $27.3 billion, a figure representing 1.3 percent of the 1979 U. S. gross national product. This enormous toll in human and economic resources dictates the need for an intervention strategy designed to stimulate injury prevention in the workplace. By using a multidisciplinary approach, NIOSH is bringing to bear the necessary scientific tools and methodologies needed to favorably impact this drain on our national resources. Implementing epidemiologic techniques to define the causal factors involved and subsequently defining solutions designed to ameliorate such contributing factors is the basic thrust of the Institute's efforts.

Division of Safety Research

DSR is the focal point of the Institute's accident and injury prevention programs, with an overall mission to decrease the number and severity of occupationally related injuries. Functionally, the program is comprised of injury surveillance and epidemiology, injury prevention research, and technology applications. Primary responsibilities of the Division include:

1. Developing a national data base of occupationally related injuries, to better assess workplace risk and set priorities for research.

2. Designing and conducting safety research aimed at preventing or mitigating injury to workers.

3. Developing criteria for recommended safety practices.

4. Developing performance criteria for respirators and other items of personal protective equipment.

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The Division will establish a stronger scientific basis for occupational safety research and give increased emphasis to moving research results from the laboratory to practical workplace application and demonstration.

Broad-based data sources for surveillance of occupational injuries will be used to describe the main features of work-injury patterns in the Nation and subsequently used as a basis for selecting research priorities, suggesting possible causal associations, measuring program impact, and providing baseline or background data for epidemiologic studies. Current priority areas have included manual materials handling, machine guarding techniques, and projects targeting fall accidents. To broaden its impact, DSR plans to stimulate and enlist the cooperation of numerous groups. To accomplish this, DSR will:

1. Stimulate occupational safety research through interaction with the few universities that have a capability and interest in occupational safety research.

2. Focus on specific groups of workers such as machinists, firefighters, building construction workers, and waste dump cleanup workers.

3. Extend surveillance and epidemiology into risk assessment to include cataloging of cases of job injuries and developing injury rates for various risk factors.

Division of Biomedical and Behavioral Sciences

DBBS research in this program area includes the investigation of job tasks, tools, and personal risk factors that precipitate and/or aggravate musculoskeletal disorders (e.g., low back injury, wrist disorders, tendonitis) and injuries, and the study of the job requirements that impact psychophysiologic functions of consequence to workers' health and safety. The development and application of control measures for preventing these problems include workplace and tool redesign.

Activities completed during FY 1981 included publication of a Work Practices Guide for Manual Materials Handling, which contains a basis for rating the hazard of overexertion in lifting tasks and means for risk reductions, documentation of successful intervention strategies for reducing the incidence of wrist disorders in selected jobs, and the design of a worksite indexing system in conjunction with NOHS-II for categorizing job tasks that pose risks to the musculoskeletal system. Proposed studies for FY 1982 will:

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1. Focus on the effects of chronic trauma on light repetitive or sedentary work activities, particularly when the work period is extended or when workers are required to sit or stand in one place for long hours.

2. Apply the recommendations from research findings to workplace settings to demonstrate their effectiveness in reducing biomechanical hazards.

3. Identify worker groups and the extent of dermatologic disease produced by chronic physical trauma to the skin.

Division of Surveillance, Hazard Evaluations, and Field Studies

The DSHEFS surveillance program has adapted three national data sets--the NCHS Health Interview Survey, the SSA Disability Award File and Mortality Statistics, and State workmen's compensation award files for use in the assessment of work-related injury, disease, disability, and death. Of specific interest is an analysis of the 1969-1972 SSA Disability Award File for several occupational rubrics for which there is reason to suspect a relationship between trauma and disabilities of the musculoskeletal, nervous, or respiratory systems. A report will be available in early FY 1982 that will evaluate these possible relationships and, where found, will recommend steps for more definitive studies.

BEST DOCUMENT AVAILABLE

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
********INJURY/TRAUMA********													F	1575
													F	1576
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE													A F	1577
													A F	1578
1. Methods for Detecting Cumulative Injury Risks (V. Putz 684-8383)	81	84					F	c	a				AayyyF	1580
(VOB-kEf-274)(1.0/245.0/270.0)(1.0/65.0/90.0)(100/VOB-Fyy-274)													AayyyF	1581
													AayyyF	1582
.1 Develop Chronic Trauma Checklist for 2nd NOHS (1Q81)													AayyyF	1583
.2 Prepare position paper on Chronic Trauma (2Q81)													AayyyF	1584
.3 Complete literature review			o										AayyyF	1585
.4 Submit protocol to OD, DBBS for preliminary evaluation				o									AayyyF	1586
.5 Complete peer review				o									AayyyF	1587
.6 Obtain required HSRB SPRG/approval				o									AayyyF	1588
.7 Complete initial worksite evaluations					o								AayyyF	1589
.8 Prepare RFC for methods evaluations						o							AayyyF	1590
.9 Submit RFC to OD, DBBS						o							AayyyF	1591
.10 Review NOHS II data on prevalence of repetitive motion/tasks						o							AayyyF	1592
.11 Submit monthly reports to OD, DBBS			o	o	o	o							AayyyF	1593
.12 Submit RFC to OAMS (1Q83)													AayyyF	1594
.13 Award methods contract (3Q83)													AayyyF	1595
.14 Complete in-house laboratory methods (4Q83)													AayyyF	1596
.15 Review/submit contractor's report to OD, DBBS (2Q84)													AayyyF	1597
.16 Evaluate methods development in field (2Q84)													AayyyF	1598
.17 Submit final project report to OD, DBBS (4Q84)													AayyyF	1599
.18 Submit abstract to Director, NIOSH (4Q84)													AayyyF	1600
.19 Submit project records to Q.A. Unit, DBBS (4Q84)													AayyyF	1601
													AayyyF	1602

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
2. Repetitive Lifting: Limiting Factors (D. Badger, 684-8286) (V08-kEp-265)(0.3/3.0/11.5)(100/V08-Fyy-265)	77	83					F	c	a				AayyyF	1605
													AayyyF	1606
													AayyyF	1607
.1 Complete peer review (1Q77)													AayyyF	1608
.2 Complete contract Physiological Responses or Repetitive Lifting (HSM-99-79-93)(4Q77)													AayyyF	1609
													AayyyF	1610
.3 Complete contract Physiological Responses of Women to Repetitive Lifting (210-77-0044)(4Q79)													AayyyF	1611
													AayyyF	1612
.4 Complete in-house testing of physiological responses of repetitive lifting (waist to shoulder lifts)(4Q80)													AayyyF	1613
													AayyyF	1614
.5 Submit progress report to Director, DBBS			o	o	o	o							AayyyF	1615
.6 Dynamic Strength Tests (contract 210-79-0041)													AayyyF	1616
a. Award contract (210-79-0041)(4Q79)													AayyyF	1617
b. Complete phase I (210-79-0041)(3Q80)													AayyyF	1618
c. Complete phase II (equipment design) (3Q81)													AayyyF	1619
d. Receive phase II report from contractor (3Q81)													AayyyF	1620
e. Receive HSRB clearance for phase III (subject testing) (4Q81)													AayyyF	1621
													AayyyF	1622
f. Begin phase III (subject testing) of contract (4Q81)													AayyyF	1623
g. Completion of phase III by contractor				o									AayyyF	1624
h. Submit final report to Director, DBBS				o									AayyyF	1625
i. Submit abstract to Director, NIOSH					o								AayyyF	1626
.7 Job Stress in Warehousing (210-81-6103)													AayyyF	1627
a. Award contract (4Q81)													AayyyF	1628
b. Review contractor's progress reports			o	o	o	o							AayyyF	1629
c. Initiate field evaluations			o										AayyyF	1630
d. Complete field evaluations						o							AayyyF	1631
e. Receive final report (2Q83)													AayyyF	1632
f. Submit final report to Director, DBBS (3Q83)													AayyyF	1633
g. Submit abstract to Director, NIOSH (3Q83)													AayyyF	1634
.8 Demonstration Project - SSA													AayyyF	1635
a. Initiate site analysis (4Q81)													AayyyF	1636
b. Complete site analysis			o										AayyyF	1637
c. Institute intervention strategy			o										AayyyF	1638
d. Complete evaluation of strategy						o							AayyyF	1639
e. Submit report to Director, DBBS and SSA						o							AayyyF	1640
f. Submit abstract to Director, NIOSH						o							AayyyF	1641
.9 Submit final project report to Director, DBBS (4Q83)													AayyyF	1642
.10 Submit abstract to Director, NIOSH (4Q83)													AayyyF	1643
.11 Submit project records to Q.A. Unit, DBBS (4Q83)													AayyyF	1644
													AayyyF	1645

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000		
3. Prevalence of Chronic Wrist Disorders (D. Habes 684-8286) (VOB-kEr-280)(0.5/10.0/20.0)(0.5/10.0/20.0)(100/VOB-Fyy-280)	81	84					F	a	a				AayyyF	1648
													AayyyF	1649
													AayyyF	1650
.1 Complete Project Peer Review (1Q81)													AayyyF	1651
.2 Case Demonstrations/Intervention Studies													AayyyF	1652
a. Submit FFS Ergonomic evaluation-Textile plant (3Q81)													AayyyF	1653
b. Review/submit to Director, DBBS report on Ergonomic Evaluation-Textile plant					o								AayyyF	1654
													AayyyF	1655
c. Submit FFS for Control/Intervention in Textile plant						o							AayyyF	1656
d. Review/submit final report to Director, DBBS on Textile Plant Intervention (4Q83)													AayyyF	1657
													AayyyF	1658
e. Submit FFS for Control/Intervention in Poultry plant (3Q81)													AayyyF	1659
													AayyyF	1660
f. Review/submit to Director, DBBS report on Intervention in Poultry Plant					o								AayyyF	1661
													AayyyF	1662
.3 Submit FFS-Development of Medical Model				o									AayyyF	1663
.4 Review/submit report on Medical Model to Dir., DBBS (3Q81)													AayyyF	1664
.5 Submit FFS Hazard Bulletin Development (2Q81)													AayyyF	1665
.6 Review/submit Hazard Bulletin to Director, DBBS and DTS						o							AayyyF	1666
.7 Chronic trauma-causal factors (contract)													AayyyF	1667
a. Submit RFC to OAMS (2Q81)													AayyyF	1668
b. Award contract (4Q81)													AayyyF	1669
c. Receive required clearances (contractor)				o									AayyyF	1670
d. Begin worksite testing jobs (1-4)					o								AayyyF	1671
e. Complete worksite testing jobs (1-4)(2Q83)													AayyyF	1672
f. Begin worksite testing jobs (5-9)(3Q83)													AayyyF	1673
g. Complete worksite testing jobs (5-9)(2Q84)													AayyyF	1674
h. Receive/review draft report (3Q84)													AayyyF	1675
i. Submit final report to Director, DBBS (4Q84)													AayyyF	1676
j. Submit abstract of final report to Director, NIOSH(4Q84)													AayyyF	1677
.8 Submit project records to Q.A. Unit, DBBS (4Q84)													AayyyF	1678
.9 Submit progress reports to Director, DBBS			o	o	o	o							AayyyF	1679
													AayyyF	1680
DIVISION OF SAFETY RESEARCH													E F	1682
													E F	1683
4. Explosion Hazards Related to Grain and Feed Dusts (1122)-- 12/31/81--$104,729--P. Bochnak--Injury and Trauma													E F	1684
													E F	1685
													E F	1686

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
5. Epidemiological Investigation of Falls from Ladders	81	83					F	b	a				EasyyF	1688
(Gustin 923-7576)													EasyyF	1689
(VLB-bbq-812)(2.0/40.0/100.0)(100/VEa-Fsy-812)													EasyyF	1690
.1 Submit RFC to contracts office (2Q80)													EasyyF	1691
.2 Award contract (3Q81)													EasyyF	1692
.3 Conduct one month NEISS trial run (1Q81)													EasyyF	1693
.4 Complete contingency plans for accessing additional injury cases (1Q81)													EasyyF	1694
													EasyyF	1695
.5 Approve completed AIM questionnaire (4Q81)													EasyyF	1696
.6 Submit questionnaire to CPSC for their review & approval			o										EasyyF	1697
.7 Submit study documentation to OMB			o										EasyyF	1698
.8 Participate in one pre-test accident investigation				o									EasyyF	1699
.9 Review and revise in-scope definition.				o									EasyyF	1700
.10 Receive & approve Phase I contractor report.					o								EasyyF	1701
.11 Conduct accident investigations for quality control.					2	5							EasyyF	1702
.12 Complete accident investigations (first 175) (2Q83)													EasyyF	1703
.13 Receive and approve Phase II analysis and recommendations report (2Q83)													EasyyF	1704
													EasyyF	1705
.14 Verify 1-5 accident investigations (1Q83)													EasyyF	1706
.15 Complete Phase III accident investigations (2nd 175) 2Q83)													EasyyF	1707
													EasyyF	1708
.16 Receive & approve final analysis of all 350 investigations (3Q83)													EasyyF	1709
													EasyyF	1710
.17 Approve Final Report - copy & abstract to Director, DSR, (3Q83)													EasyyF	1711
													EasyyF	1712
.18 Submit final report for publication (4Q83)													EasyyF	1713
													EasyyF	1714

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
6. Epidemiological Investigations of Lathe Injuries	81	83					F	b	a				EatnyF	1717
(Cleveland 923-7576)													EatnyF	1718
(VLB-bbN-808)(2.0/38.8/98.8)(100/VEa-FtN-808)													EatnyF	1719
.1 Submit RFC to Contracts Office (2Q80)													EatnyF	1720
.2 Award contract (2Q81)													EatnyF	1721
.3 Evaluate contractor's proposed project timetable (1Q81)													EatnyF	1722
.4 Conduct 1 month NEISS Trial Run (to evaluate system's													EatnyF	1723
ability to provide accidents) (1Q81)													EatnyF	1724
.5 Complete contingency plans for accessing additional in-													EatnyF	1725
scope accidents from BLS (4Q81)													EatnyF	1726
.6 Develop final in-scope accident definition (4Q81)													EatnyF	1727
.7 Submit purchase orders for additional data from State				o									EatnyF	1728
Worker's Compensation Agencies													EatnyF	1729
.8 Develop and approve accident investigation procedure,			o										EatnyF	1730
including the AIM questionnaire and consent form to													EatnyF	1731
comply with Privacy Act													EatnyF	1732
.9 Develop case-control matching procedure			o										EatnyF	1733
.10 Submit OMB Clearance documentation on accident				o									EatnyF	1734
investigation and investigation AIM questionnaire													EatnyF	1735
.11 Review pretest accident investigation procedure &					o								EatnyF	1736
questionnaire on nine subjects													EatnyF	1737
.12 Review first 175 case-control investigations (1Q83)													EatnyF	1738
.13 Review contractor's interim report on first 175 investiga-													EatnyF	1739
tions and make any necessary modifications (1Q83)													EatnyF	1740
.14 Complete second 175 case control investigations (2Q84)													EatnyF	1741
.15 Review contractor's final report (3Q83)													EatnyF	1742
.16 Publish final report and conduct in-house seminar (4Q84)													EatnyF	1743
													EatnyF	1744

BEST DOCUMENT AVAILABLE

PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	2Q	COMPLETION 3Q	4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000		
7. Worker -Identified Hazard Control System (Cleveland 923-7576) (VLB-abm-809)(0.5/18.2/33.2)(100/VEa-Fst-809)	81	84					F	b	a				EastyF	1747
													EastyF	1748
.1 Submit RFC to contract office (2Q80)													EastyF	1749
.2 Review and approve contractor timetable (1Q81)													EastyF	1750
.3 Award contract 2Q81													EastyF	1751
.4 Review literature 4Q81													EastyF	1752
.5 Approve plant selection			o										EastyF	1753
.6 Review the design of the interview questionnaire and methodology			o										EastyF	1754
													EastyF	1755
.7 Submit questionnaire to OMB and Human Subjects Review Board			o										EastyF	1756
													EastyF	1757
.8 Review the design of the monetary and attitudinal evaluation criteria			o										EastyF	1758
													EastyF	1759
.9 Approve survey start after OMB clearance is obtained					o								EastyF	1760
.10 Review monetary and attitudinal evaluation data (3Q83)													EastyF	1761
.11 Evaluate data and review contractor's final report (4Q83)													EastyF	1762
.12 Present internal evaluation of findings to Division Director and staff (4Q83)													EastyF	1763
													EastyF	1764
.13 Write and submit article for publication (1Q84)													EastyF	1765
													EastyF	1766
8. NEISS Occupationally Related Data Sharing (Gustin 923-7576) (VLB-abN-814)(0.5/270.0/285.0)(100/VEa-FNy-814)	80	C					F	b	a				EaNyyF	1769
													EaNyyF	1770
.1 Sign IAA-NIOSH & CPSC (4Q80)													EaNyyF	1771
.2 Initiate NEISS one month trial (1Q81)													EaNyyF	1772
.3 Evaluate trial results & report to Director, DSR (2Q81)													EaNyyF	1773
.4 Submit second IAA-NIOSH agreement (2Q81)													EaNyyF	1774
.5 Write IAA-NIOSH & CPSC for FY82 (4Q81)													EaNyyF	1775
.6 Report on success of FY81 effort to Director, DSR			o										EaNyyF	1776
.7 Complete evaluation of 6 months' (FY82) accumulated data, submit report to Director, DSR					o								EaNyyF	1777
													EaNyyF	1778
.8 Submit 1st annual surveillance report for publication as NIOSH report						o							EaNyyF	1779
													EaNyyF	1780
.9 Report to Director on continuing project for FY-83 (1Q83)													EaNyyF	1781
													EaNyyF	1782
													EaNyyF	1783

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000		
9. BLS Work Injury Report Surveys (Coleman 923-7576)	77	C					F	g	a				EasNyF	1786
(VLB-abN-813)(1.0/190.0/220.0)(100/VEa-FsN-813)													EasNyF	1787
.1 Submit reports to Director, DSR on surveys of:													EasNyF	1788
a. Equipment Servicing Injuries				o									EasNyF	1789
b. Back Injuries					o								EasNyF	1790
c. Amputations					o								EasNyF	1791
.2 Submit RFA to Contracts Office for Inter-Agency Agreement with BLS to fund future surveys						o							EasNyF	1792
													EasNyF	1793
.3 Solicit DSR needs and prepare report for FY82 surveys						o							EasNyF	1794
.4 Attend 4 planning meetings for FY82 surveys and FY81 results			o	o	o	o							EasNyF	1795
													EasNyF	1796
													EasNyF	1797
10. Study of Falls Involved with Pushing and Pulling Tasks (Pizatella 923-7454)	81	83					F	b	a				EbsNyF	1800
(VLD-kbN-820)(0.8/4.0/28.0)(100/VEn-FsN-820)													EbsNyF	1801
.1 Contract awarded 3Q81)													EbsNyF	1802
.2 Obtain HSRB approval for labaoratory experiments			o										EbsNyF	1803
.3 Complete development of biomechanical model			o										EbsNyF	1804
.4 Complete laboratory pushing experiments					o								EbsNyF	1805
.5 Complete laboratory pulling experiments (1Q83)													EbsNyF	1806
.6 Complete workplace validatings (2Q83)													EbsNyF	1807
.7 Submit final report for review (2Q83)													EbsNyF	1808
.8 Complete approvals for publication of final report (3Q83)													EbsNyF	1809
.9 Transmit abstract to Director, NIOSH (4Q83)													EbsNyF	1810
.10 Submit for journal publication (4Q83)													EbsNyF	1811
													EbsNyF	1812
													EbsNyF	1813
11. Allowable Loads for a Multi-Story Concrete Structure (Parsons 923-7454)	81	83					F	b	a				EbsyyF	1816
(VLD-gbq-827)(1.2/3.0/39.0)(100/VEb Fsy-827)													EbsyyF	1817
.1 Submit requisition for lab computer (1Q81)													EbsyyF	1818
.2 Complete development of two dimensional Macro Element Model (2Q81)													EbsyyF	1819
													EbsyyF	1820
.3 Complete computer program (3Q81)													EbsyyF	1821
.4 Submit paper for review and approvals			o										EbsyyF	1822
.5 Complete approvals and submit for publication				o									EbsyyF	1823
.6 Complete 2-dimensional model				o									EbsyyF	1824
.7 Rewrite program for mini computer					o								EbsyyF	1825
.8 Submit paper on 2-D model for review					o								EbsyyF	1826
.9 Complete approvals and submit for publication						o							EbsyyF	1827
.10 Complete literature search on shoring (1Q83)													EbsyyF	1828
.11 Have shoring scheme developed (2Q83)													EbsyyF	1829
.12 Have final computer program written (3Q83)													EbsyyF	1830
.13 Submit paper on excavation shoring computer program for publication (4Q83)													EbsyyF	1831
													EbsyyF	1832
													EbsyyF	1833
													EbsyyF	1834

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
12. Methods for Determining In-Situ Strength of Concrete	80	83					F	b	a				EbsyyF	1837
(Parsons 923-7454)													EbsyyF	1838
(VLD-gbq-826)(1.0/2.5/32.5)(100/VEb-Fsy-826)													EbsyyF	1839
.1 Award contract 210-80-0036 (4Q80)													EbsyyF	1840
.2 Conduct review meeting (1Q80)													EbsyyF	1841
.3 Obtain SPRG clearance and complete Phase I (3Q81)													EbsyyF	1842
.4 Start Phase II (Data collection and analysis (4Q81)													EbsyyF	1843
.5 Report on scaffolding and submit new project for FY-83					o								EbsyyF	1844
.6 Visit local construction sites					o								EbsyyF	1845
.7 Receive interim reports on experimental results						o							EbsyyF	1846
.8 Review final report on in-situ strength (1Q83)													EbsyyF	1847
.9 Submit report for publication (3Q83)													EbsyyF	1848
													EbsyyF	1849
13. Stairway Design for Reducing Fall Injuries (Jensen 923-7454)	79	82					F	b	a				EbsNyF	1852
(VLD-kbN-839)(100/VEb-FsN-839)													EbsNyF	1853
.1 Contract 210-79-0020 awarded to Georgia Tech (4Q79)													EbsNyF	1854
.2 Completed analysis of injury data to identify high risk industries (3Q80)													EbsNyF	1855
													EbsNyF	1856
.3 Report from contractor on injury data (4Q80)													EbsNyF	1857
.4 Complete video taping of first ten stairways (Phase II) (1Q81)													EbsNyF	1858
													EbsNyF	1859
.5 Contractor report on Phase II approved by NIOSH (4Q81)													EbsNyF	1860
.6 Submit contract modification to OAMS			o										EbsNyF	1861
.7 Initiate video taping second group of stairs			o										EbsNyF	1862
.8 Complete video taping of second group of ten stairways				o									EbsNyF	1863
.9 Receive draft final report					o								EbsNyF	1864
.10 Complete review of final report					o								EbsNyF	1865
.11 Transmit abstract to Director, NIOSH						o							EbsNyF	1866
.12 Submit report for publication						o							EbsNyF	1867
													EbsNyF	1868

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
14. Long Term Effects of Learned Safety Skills	79	82					F	b	a				EbNyyF	1871
(Jensen 923-7454)													EbNyyF	1872
(VLD-kbN-835)(100/VEb-FNy-835)													EbNyyF	1873
.1 Contract 210-79-0018 awarded (4Q79)													EbNyyF	1874
.2 Completed pilot study (3Q80)													EbNyyF	1875
.3 Initiate behavioral monitoring (4Q80)													EbNyyF	1876
.4 Complete employee training (1Q81)													EbNyyF	1877
.5 Complete behavioral monitoring (3Q81)													EbNyyF	1878
.6 Complete data analysis (4Q81)													EbNyyF	1879
.7 Receive draft final report from contractor			o										EbNyyF	1880
.8 Complete technical review (evaluate & edit)				o									EbNyyF	1881
.9 Submit approved final report to NTIS				o									EbNyyF	1882
.10 Transmit abstract to Director, NIOSH					o								EbNyyF	1883
.11 Prepare manuscript for journal publication					o								EbNyyF	1884
.12 Complete technical review of manuscript for journal						o							EbNyyF	1885
.13 Final publication approval from Director, NIOSH						o							EbNyyF	1886
.14 Submit manuscript for publication in appropriate journal						o							EbNyyF	1887
													EbNyyF	1888
													EbNyyF	1889
15. Controlling Overexertion Injuries Through Task Design	79	82					F	b	a				EbNyyF	1892
(Jensen 923-7454)													EbNyyF	1893
(VLD-kbN-834)(100/VEb-FNy-834)													EbNyyF	1894
.1 Award contract 210-79-0022 (4Q79)													EbNyyF	1895
.2 Obtained required clearances (Phase I) (1Q80)													EbNyyF	1896
.3 Initiated data collection (2Q80)													EbNyyF	1897
.4 Complete collection and analysis of data (4Q81)													EbNyyF	1898
.5 Receive draft final report from contractor			o										EbNyyF	1899
.6 Complete technical review (evaluate & edit of final report)				o									EbNyyF	1900
													EbNyyF	1901
.7 Submit approved final report to NTIS				o									EbNyyF	1902
.8 Transmit abstract to Director, NIOSH					o								EbNyyF	1903
.9 Prepare manuscript for journal publication					o								EbNyyF	1904
.10 Complete technical review of manuscript for journal publication					o								EbNyyF	1905
													EbNyyF	1906
.11 Submit manuscript for publication in appropriate journal								o					EbNyyF	1907
													EbNyyF	1908

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
16. Hand Speed Study of Press Operators	80	82					F	b	a				EbtyyF	1911
(Pizatella 923-7454)													EbtyyF	1912
(VLD-kbm-829)(100/VEb-Fty-829)													EbtyyF	1913
.1 Obtain RSRB approval for pilot study (1Q81)													EbtyyF	1914
.2 Complete data collection (3Q81)													EbtyyF	1915
.3 Complete data analysis (4Q81)													EbtyyF	1916
.4 Draft report on pilot study (4Q81)													EbtyyF	1917
.5 Complete technical review of paper			o										EbtyyF	1918
.6 Complete revision of paper			o										EbtyyF	1919
.7 Obtain final approval for paper				o									EbtyyF	1920
.8 Submit for conference presentation					o								EbtyyF	1921
.9 Design and develop experimental protocol for full study; submit as a new project for FY83						o							EbtyyF	1922
													EbtyyF	1923
													EbtyyF	1924
17. Study of OSHA's Experimental Variance on Power Presses	81	82					F	b	a				EbtNyF	1927
(Etherton 923-7454)													EbtNyF	1928
(VLD-kbN-830)(100/VEb-FtN-830)													EbtNyF	1929
.1 Contract awarded (4Q80)													EbtNyF	1930
.2 Completed collection of European data (3Q81)													EbtNyF	1931
.3 Completed review of Interlake records (3Q81)													EbtNyF	1932
.4 Completed stress evaluations of Interlake workers (4Q81)													EbtNyF	1933
.5 Contractor's recommendations on the variance received (4Q81)													EbtNyF	1934
													EbtNyF	1935
.6 Present recommendations to OSHA			o										EbtNyF	1936
.7 Contract modification				o									EbtNyF	1937
.8 Report on inspection criteria					o								EbtNyF	1938
.9 Review and evaluate reports						o							EbtNyF	1939
.10 Submit for publication or NTIS as appropriate						o							EbtNyF	1940
													EbtNyF	1941
18. Assessment of Musculoskeletal Injury Data (Jensen 923-7454)	81	82					F	a	a				EbyyNF	1944
VLD-abN-833)(100/VEb-FyN-833)													EbyyNF	1945
.1 Search BLS-SDS data tapes (1Q81)													EbyyNF	1946
.2 Draft report on wrist injuries (2Q81)													EbyyNF	1947
.3 Complete review of report (4Q81)													EbyyNF	1948
.4 Obtain final NIOSH approval to publish report			o										EbyyNF	1949
.5 Obtain WIR back injury survey data from BLS			o										EbyyNF	1950
.6 Search BLS-SDS data tapes for back injuries					o								EbyyNF	1951
.7 Complete analysis of back injury data					o								EbyyNF	1952
.8 Draft report on back injuries					o								EbyyNF	1953
.9 Complete technical reviews of back injury report					o								EbyyNF	1954
.10 Obtain final NIOSH approval to publish report					o								EbyyNF	1955
.11 Transmit abstract to Director, NIOSH					o								EbyyNF	1956
.12 Submit back injury paper for publication					o								EbyyNF	1957
.13 Participate in meetings of the NIOSH Working Group on Ergonomics and Trauma			o	o	o								EbyyNF	1958
													EbyyNF	1959
													EbyyNF	1960

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
19. Analysis for Safety of Foot Operated Machinery	81	83					F	b	a				EbtyyF	1963
(Etherton 923-7454)													EbtyyF	1964
(VLD-kbm-828)(1.0/5.0/35.0)(100/VEb-Fty-828)													EbtyyF	1965
.1 RFC to OAMS (2Q81)													EbtyyF	1966
.2 Review of proposals completed (4Q81)													EbtyyF	1967
.3 Submit concept memo for approval by Director, NIOSH			o										EbtyyF	1968
.4 Award contract			o										EbtyyF	1969
.5 SFRG review completed					o								EbtyyF	1970
.6 Experiment protocol completed					o								EbtyyF	1971
.7 HSRB approval					o								EbtyyF	1972
.8 Data collection completed						o							EbtyyF	1973
.9 Draft paper detailing the experimental results completed (1Q83)													EbtyyF	1974
													EbtyyF	1975
.10 Submit for approval by Director's office a paper detailing the experimental results (2Q83)													EbtyyF	1976
													EbtyyF	1977
.11 Receive draft of a paper on safer foot pedal applications (3Q83)													EbtyyF	1978
													EbtyyF	1979
.12 Approval by Director's office of a paper on safer foot pedal applications (4Q83)													EbtyyF	1980
													EbtyyF	1981
.13 Submission to journals of two papers (4Q83)													EbtyyF	1982
													EbtyyF	1983
20. Design of Containers to Minimize Biomechanical Stress	81	83					F	b	a				EbyNyF	1986
(Pizatella 923-7454)													EbyNyF	1987
(VLD-kbN-837)(0.5/2.0/17.0)(100/VEb-FyN-837)													EbyNyF	1988
.1 Submitted RFC to OAMS (2Q81)													EbyNyF	1989
.2 Submit concept memo for approval by Director			o										EbyNyF	1990
.3 Obtain SPRG clearance			o										EbyNyF	1991
.4 Obtain HSRB clearance				o									EbyNyF	1992
.5 Initiate data collection					o								EbyNyF	1993
.6 Complete main experiments (1Q83)													EbyNyF	1994
													EbyNyF	1995
.7 Complete validation experiments (2Q83)													EbyNyF	1996
.8 Receive draft final report (3Q83)													EbyNyF	1997
.9 Complete review of final report (4Q83)													EbyNyF	1998
.10 Transmit abstract to Director, NIOSH (4Q83)													EbyNyF	1999
.11 Submit paper to journal (4Q83)													EbyNyF	2000
													EbyNyF	2001
OFFICE OF EXTRAMURAL COORDINATION AND SPECIAL PROJECTS													F F	2003
													F F	2004
21. Research and Demonstration Grants - Injury/Trauma	71	C					F	e	a				FayyyF	2005
(Moshell, 443-4493)													FayyyF	2006
(0/0.3/0.3)(100/VCE-Fyy-890)													FayyyF	2007
													FayyyF	2008

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LUNG DISORDERS

It has long been recognized that emphysema, which is the leading cause of respiratory deaths in the United States, has an increased incidence in populations exposed to dusty or chemical-laden environments. Lung cancer, which is the second leading cause of respiratory deaths, has been connected with occupational exposures of carcinogenic material. The morbidity and mortality of these diseases, plus occupational exposures which lead to the development of lung disorders such as asthma, bronchitis, allergic alveolitis, interstitial fibrosis, pneumoconiosis, and other airways diseases, show the importance of requiring research in respiratory disease if NIOSH is to carry out its mission of protecting the health of the American worker.

The major areas for research in lung disorders within the Institute are:

1. Non-fibrous minerals.

2. Fibrous minerals.

3. Organic dusts, chemicals, and biological products.

4. Methods development for measuring pulmonary mechanics and lung function in humans and animals.

The respiratory disease program within the Institute is multidisciplinary, and interrelates with other Institute areas such as surveillance, mutagenicity, respirator use, energy, and HHEs. The environmental, laboratory, and epidemiologic research of the Institute are all coordinated within this program, with primary responsibility residing within DRDS.

Division of Respiratory Disease Studies

The major components of the Division program for the study of lung disorders includes laboratory-based research upon physiological mechanisms and the effect of various challenge agents upon lung mechanics and pulmonary function. Research is conducted that relates to coal and non-coal mining, fibrous minerals such as asbestos, and a variety of organic dusts, industrial chemicals, and biological products that are found in the workplace environment. Multiple morbidity and mortality studies are underway, and environmental data collected, to assist in the development of dose-response information which can then be translated into information of direct benefit to the worker.

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The objective of the NIOSH Emerging Energy Industries Program is the prevention of OSH hazards in new energy industries. U.S. energy production is projected to increase by 30 to 40 percent in the next 20 years. Much of this increased production will involve new technologies for which occupational health hazards are unknown, and for which epidemiologic data for health assessment are unavailable.

The program strategy is to use industrial hygiene characterization and coordinated biological studies of pilot plants and initial demonstration plants or commercial plants, to provide guidance for process design, engineering modifications, and workplace controls for hazard prevention prior to extensive commercial deployment of the new technologies. This information also will provide a basis for subsequent medical surveillance and epidemiologic efforts to ensure the adequacy of the initial prevention measures.

In FY 1981, the following tasks were accomplished:

1. A program plan was developed, establishing the program strategy and providing for coordination of industrial hygiene, bioassay, medical surveillance, epidemiologic, and control technology studies.

2. Industrial hygiene characterizations of six selected resource recovery facilities that use wastes for combustion fuel was completed, including characterization of viral hazards. A comprehensive review and recommendations report is in preparation.

3. Industrial hygiene studies of fluidized bed coal combustion were initiated, the field studies to be completed in FY 1982.

4. Industrial hygiene characterization studies of the three generic types of coal gasifiers were completed. Studies of selected downstream fuel gas cleanup system operations were initiated and scheduled for completion in FY 1984. In FY 1982, the first comprehensive industrial hygiene review and recommendations report on coal gasification based on NIOSH field studies will be drafted.

5. Industrial hygiene characterization studies were completed on the three major direct coal-liquefaction process pilot facilities. Additional field studies will be completed in FY 1982, characterizing operations on Western coals and characterizing plant "turnaraounds." In FY 1982 the first comprehensive industrial hygiene review and recommendations report on direct coal liquefaction based on NIOSH field studies will be written.

6. Industrial hygiene characterization of two modes of coal-fired utility power plant operation was completed. And data collection was completed for a mortality epidemiologic study of workers at those plants. Analysis of the data will be completed in FY 1982.

7. A report presenting initial recommendations for medical surveillance of workers at synfuel plants was prepared for review and publication.

8. A bioassay protocol for worker urine and blood bioassays and for workplace environmental sample cytogenetic and cytotoxicity bioassays was developed. The protocol is being submitted for clearance for use with planned conventional industrial hygiene studies.

9. Discussions were held with trade associations and State health department representatives to plan a prospective epidemiologic registry for synfuel workers. Development of the registry in cooperation with other involved groups will begin in FY 1982.

10. Plans were developed for industrial hygiene characterizations of oil shale mining and of above-ground and modified in situ shale oil retorting. The field studies begin in FY 1982 and continue through FY 1984. Morbidity and mortality epidemiologic studies of oil shale workers at the Anvil Points facility were previously completed.

New efforts in FY 1982 will include:

1. Retrospective mortality epidemiologic feasibility studies of four domestic synfuel production experiences.

2. Characterization of fugitive emissions from primary plant component sources.

3. Industrial hygiene characterization of advanced fossil fuel utilization technologies.

Division of Surveillance, Hazard Evaluations, and Field Studies

As part of DSHEFS' retrospective cohort mortality, proportionate mortality, and case control studies, nonmalignant respiratory disease is evaluated. In FY 1981, no final results were produced that showed any significant findings in this area.

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Division of Safety Research

The DSR program in mining consists of legislatively mandated programs to test and certify respirators and coal mine personal dust samplers. In addition a new effort is proposed to actively monitor BOM-sponsored research to identify technology that also could be useful for reducing injury risks in non-mining workplaces.

Office of Extramural Coordination and Special Projects

OECSP proposes development of an occupational lung disease pathology registry.

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000			
*******LUNG DISORDERS*******														I	2011
														I	2012
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE													A	I	2013
													A	I	2014
1. Safe Decompression Schedules of Caisson Workers (947)-- 1/31/83--$60,951--( )													A	I	2015
													A	I	2016
													A	I	2017
2. Human Metabolism of Halothane--Mechanisms of Toxicity (978)-- 8/31/83--$94,074--H. Plotnick.													A	I	2018
													A	I	2019
													A	I	2020
3. Chronic Toxicity of Insulation Materials (W. Moorman, 684-8275) (VOO-cBi-327)(100/VOO-Igy-312)	78	82					I	a	a				Acgyy	I	2022
													Acgyy	I	2023
													Acgyy	I	2024
.1 Complete peer review (1Q78)													Acgyy	I	2025
.2 Submit RFC to contract office (2Q78)													Acgyy	I	2026
.3 Award contract (210-78-0037) (4Q78)													Acgyy	I	2027
.4 Complete baseline biological testing (2Q79)													Acgyy	I	2028
.5 Initiate inhalation exposures (3Q79)													Acgyy	I	2029
.6 Consult Information Office (1Q80)													Acgyy	I	2030
.7 Complete 9-month pulmonary function testing (2Q80)													Acgyy	I	2031
.8 Submit contractor's progress report to Director, DBBS			o	o	o	o							Acgyy	I	2032
.9 Complete 18-month exposure regimen (1Q81)													Acgyy	I	2033
.10 Complete terminal sacrifice of rats and monkeys (1Q81)													Acgyy	I	2034
.11 Complete pathology of monkeys (3Q81)													Acgyy	I	2035
.12 Complete pathology of rats			ↄ										Acgyy	I	2036
.13 Review draft of final report				o									Acgyy	I	2037
.14 Submit final report to Director, DBBS						o							Acgyy	I	2038
.15 Submit abstract to Director, NIOSH						▫							Acgyy	I	2039
.16 Submit project records to Q. A. Unit, DBBS						o							Acgyy	I	2040
													Acgyy	I	2041

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
4. Pulmonary Hypersensitivity:Industrial Metals(R Biagini 684-8275) (VOO-cDv-329)(1.4/59.5/99.5)(100/VOO-Iyy-329)	79	83					I	c	a				AcyyyI	2044
													AcyyyI	2045
													AcyyyI	2046
.1 Complete peer review (1Q79)													AcyyyI	2047
.2 Submit final protocol to Director, DBBS (1Q79)													AcyyyI	2048
.3 Initiate sensitization exposures (4Q79)													AcyyyI	2049
.4 Complete Pt exposures (4Q80)													AcyyyI	2050
.5 Complete acid co-asthmogen IT exposures (2Q81)													AcyyyI	2051
.6 Complete development of aerosol sizing equipment (4Q81)													AcyyyI	2052
.7 Whole-body Pt/Cl2 exposures													AcyyyI	2053
a. Initiate exposures				o									AcyyyI	2054
b. Complete exposures					o								AcyyyI	2055
c. Initiate Pt challenge					o								AcyyyI	2056
d. Complete Pt challenge						o							AcyyyI	2057
e. Submit report to Director, DBBS						o							AcyyyI	2058
.8 Whole-body Vanadium/03 Exposures													AcyyyI	2059
a. Prepare draft protocol			o										AcyyyI	2060
b. Submit protocol to Director, DBBS			o										AcyyyI	2061
c. Prepare HDS			o										AcyyyI	2062
d. Initiate metacholine and V challenges				o									AcyyyI	2063
e. Complete metacholine and V challenges					o								AcyyyI	2064
f. Initiate V/03 exposures					o								AcyyyI	2065
g. Complete V/03 exposures (1Q83)													AcyyyI	2066
h. Submit report to Director, DBBS (2Q83)													AcyyyI	2067
.9 Submit progress report to Director, DBBS			o	o	o	o							AcyyyI	2068
.10 Submit final project report to Director, DBBS (3Q83)													AcyyyI	2069
.11 Submit abstract to Director, NIOSH (3Q83)													AcyyyI	2070
.12 Submit project records to Q. A. Unit, DBBS (3Q83)													AcyyyI	2071
													AcyyyI	2072
DIVISION OF RESPIRATORY DISEASE STUDIES													C	I 2074
													C	I 2075
5. M. Faeni: An Occupational Cause of Pulmonary Fibrosis (992)--8/31/83--$48,500--S. Olenchock													C	I 2076
													C	I 2077
													C	I 2078

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
6. Epi/Env Study of Coal Miners Exposed to Diesel Emissions (Reger R 304-599-7476)(4.0/70.0/190.0)(3.0/50.0/155.0) (100/VCa-Imm-179)	82	84					I	c	b				CammyI	2080
													CammyI	2081
													CammyI	2082
													CammyI	2083
.1 Submit materials for HSRB, SPRG, FRA, and peer review			o										CammyI	2084
.2 Develop environmental and medical protocol for follow-up			o										CammyI	2085
.3 Conduct walk-thrus and negotiations with companies				o	o								CammyI	2086
.4 Finalize environmental and medical protocol						o							CammyI	2087
.5 Conduct field medical examinations and environmental surveys (1Q,2Q,3Q,4Q83)													CammyI	2088
													CammyI	2089
.6 Collate materials with data from original survey (1Q84)													CammyI	2090
.7 Analyze data and write report (2Q,3Q84)													CammyI	2091
.8 Submit abstract and final report to Director, NIOSH with copy of report and abstract to DTS (4Q84)													CammyI	2092
													CammyI	2093
													CammyI	2094
7. IH/Epidemiology/Control Technology of Ceramic Workers (Gamble J 304-599-7476)(1.0/25.0/55.0)(0.2/7.0/14.0)) (100/VCa-Img-177)	82	84					I	c	a				CangyI	2097
													CangyI	2098
													CangyI	2099
													CangyI	2100
.1 Complete literature search			o										CangyI	2101
.2 Hold meetings with industry representatives to select plants for walk-thru surveys				o									CangyI	2102
													CangyI	2103
.3 Complete walk-thru surveys for pilot study						o							CangyI	2104
													CangyI	2105
.4 Present recommendations for continuation studies to Director, DRDS (1Q83)													CangyI	2106
													CangyI	2107
													CangyI	2108

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
8. Env/Morb/Mortality Study of Vermiculite Workers (Amandus H 304-599-7476)(100/VKL-bDp-196)(0.5/15.0/30.0) (100/VCa-Igk-196)	81	83					I	g	a				CagkyI	2111
													Cagky?	2112
													CagkyI	2113
													CagkyI	2114
.1 Submit employment records for SSA and IRS						o							CagkyI	2115
.2 Obtain and code death certificates (1Q83)													CagkyI	2116
.3 Evaluate environmental data and prepare for mortality analysis						o							CagkyI	2117
.4 Analysis and report (3Q83)													CagkyI	2118
Montana and South Carolina Plants													CagkyI	2119
.5 Plan strategy with NIOSH and MSHA legal counsel for obtaining records and access to facility			o										CagkyI	2120
.6 Obtain legal access to records and plant					o								CagkyI	2121
.7 Site visit to Libby, Montana plant. Cross-sectional medical/environmental study. Collect personnel records and examine facility processes to interpret hygiene measurements						o							CagkyI	2122
.8 Site visit of control facility (South Carolina)(2Q83)													CagkyI	2123
.9 Complete fiber analysis of vermiculite ore and airborne sample (4Q83)													CagkyI	2124
.10 Complete analysis of morbidity data (4Q83)													CagkyI	2125
.11 Complete follow-up of workers for mortality study (4Q83)													CagkyI	2126
.12 Morbidity, mortality, environmental report (1Q84)													CagkyI	2127
.13 Submit (summary) final report and abstract to Director, NIOSH, with copy of report and abstract to DTS (1Q84)													CagkyI	2128
													CagkyI	2129
													CagkyI	2130
													CagkyI	2131
													CagkyI	2132
													CagkyI	2133
													CagkyI	2134
													CagkyI	2135
													CagkyI	2136

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
9. Morb/Mort Study of Workers Exposed to Wood Dust (Gamble J 304-599-7476) (VKL-bsD-188) (2.0/75.0/135.0) (100/VCa-Igh-188)	79	83					I	c	a				CaghhI	2139
													CaghhI	2140
													CaghhI	2141
													CaghhI	2142
.1 Discussion with National Forest Products Association and other knowledgeable individuals in wood industry (FY79 & FY80)													CaghhI	2143
													CaghhI	2144
													CaghhI	2145
.2 Clearance of wood study design and protocol (4Q79)													CaghhI	2146
.3 Site visits of representative plants in this industry (4Q79)													CaghhI	2147
.4 Decision made to contract out part of the work (1Q80)													CaghhI	2148
.5 RFP for wood dust contract (2Q80)													CaghhI	2149
.6 NFPA agrees to condust questionnaire survey of their for information on products, species, size, etc. Information is to be used in drawing a sample of plants to be included in the study (4Q80)													CaghhI	2150
													CaghhI	2151
													CaghhI	2152
													CaghhI	2153
.7 Data from NFPA used in selecting approx. 60 plants (2Q81)													CaghhI	2154
.8 Ready to contact plants, but no funds available to follow-up; everything on hold (3Q81 & 4Q81)													CaghhI	2155
													CaghhI	2156
.9 Award of contract questionable (doubtful)(3Q81 & 4Q81)													CaghhI	2157
.10 Tract pilot study (UNC grant)			o										CaghhI	2158
.11 Contact plants that agree to particpate in study and make arrangements for walk-thrus			o	o	o	o							CaghhI	2159
													CaghhI	2160
.12 Microfilm records for mortality study			o	o	o	o							CaghhI	2161
.13 Walk-thru IH survey of plants. Set up time to do medical and IH survey			o	o	o	o							CaghhI	2162
													CaghhI	2163
.14 Medical and IH survey of plants in 4 cells/3quarters				o	o	o							CaghhI	2164
.15 Processing, coding, and editing					o	o							CaghhI	2165
.16 Initial morbidity analysis will be for each cell and will go on as walk-thrus & surveys are being conducted in the plants in other (species) cells													CaghhI	2166
													CaghhI	2167
					o	o							CaghhI	2168
.17 Analysis of medical data with acute environmental data will be for each cell. Complete analysis may have to wait for estimation of cumulative exposure estimates (2Q83)													CaghhI	2169
													CaghhI	2170
													CaghhI	2171
.18 Analysis and report for entire study using data from all cells (4Q83)													CaghhI	2172
													CaghhI	2173
.19 Submit abstract of final report to Director, NIOSH, with copy of abstract and report to DTS (4Q83)													CaghhI	2174
													CaghhI	2175
													CaghhI	2176

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
10. Third Round National Coal Study (Attfield M 304-599-7501)(VKL-bpD-183)(100/VCa-Imn-183)	77	82					I	b	b				CammI	2179
													CammI	2180
													CammI	2181
Mortality													CammI	2182
NCS 1 Cohort													CammI	2183
.1 Data preparation and ICDA coding completed				o									CammI	2184
.2 Prepare master tape				o									CammI	2185
.3 Mortality analysis					o								CammI	2186
Appalachian Cohort													CammI	2187
.4 Determine vital status of selcted 'hard-to-locate' cases			o										CammI	2188
.5 Analyze data and write and write report						o							CammI	2189
Beckley-Charleston Compensation Cohort													CammI	2190
.6 Determine vital status of selected 'hard-to-locate' cases			o										CammI	2191
.7 Analyze data and write report						o							CammI	2192
													CammI	2193
Morbidity													CammI	2194
.1 Complete film reading				o									CammI	2195
.2 Complete editing and letter generation				o									CammI	2196
.3 Complete analysis (principally study of radiological progression)					o								CammI	2197
													CammI	2198
.4 Complete final report and submit abstract to Director, NIOSH, with copy of all reports and abstracts						o							CammI	2199
													CammI	2200
													CammI	2201

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000		
11. Epidemiologic Study of Normal Blue Collar Workers (Burchell B 304-599-7501)(VKL-iDp-195) (0.4/18.0/30.0) (100/VCa-Iyy-195)	77	83					I	c	b				CayyyI	2204
.1 Collect and edit data (1Q80)													CayyyI	2205
.2 Verify the coding of the data and begin preliminary analyses (1Q81)													CayyyI	2206
.3 Provide an analysis of the symptoms of respiratory diseases (2Q81)													CayyyI	2207
.4 Provide an analysis of x-ray data (2Q81)													CayyyI	2208
.5 Provide an analysis of the pulmonary function data (3Q81)													CayyyI	2209
.6 Extract the asymptomatic nonsmokers' data and develop pulmonary function prediction equations (4Q81)													CayyyI	2210
.7 Provide a written report to the Director, NIOSH, of items 3-6 (4Q81)													CayyyI	2211
.8 Extract a set of nonexposed controls from secondary cotton study for use in the extended blue collar study			o										CayyyI	2212
.9 Extract a set of nonexposed controls from cement workers' study for use in the extended blue collar study				o									CayyyI	2213
.10 Calculate the total lung capacity for each subject in the study by the planimetric method and incorporate the results into the data file					o								CayyyI	2214
.11 Provide and analysis of the supplemental controls' data						o							CayyyI	2215
.12 Complete final report and submit abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q83)													CayyyI	2216
													CayyyI	2217
													CayyyI	2218
													CayyyI	2219
													CayyyI	2220
													CayyyI	2221
													CayyyI	2222
													CayyyI	2223
													CayyyI	2224
													CayyyI	2225
													CayyyI	2226
													CayyyI	2227
													CayyyI	2228
													CayyyI	2229
12. Cement Mortality Study (Amandus H 304-599-7476)(VKL-bDp-192) (0.4/8.0/20.0) (100/VCa-Ign-192)	80	83					I	c	d				CagnyI	2232
													CagnyI	2233
													CagnyI	2234
													CagnyI	2235
.1 Follow-up; vital status determined (4Q81)			o	o	o								CagnyI	2236
.2 Obtain and code death certificates					o	o							CagnyI	2237
.3 Analysis (2Q83)													CagnyI	2238
.4 Complete data analysis (3Q83)													CagnyI	2239
.5 Complete final report and submit abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q83)													CagnyI	2240
													CagnyI	2241
													CagnyI	2242

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
13. Mort/IH Study of Workers in Coal-Fired Power Plants -TVA (Costello J 304-599-7476) (VKL-bDi-180) (100/VCa-Iim-180)	77	82					I	c	b				CaimyI	2245
													CaimyI	2246
													CaimyI	2247
													CaimyI	2248
.1 Monitopr IH work performed by TVA under subagreement I (1Q,2Q,3Q,4Q81)													CaimyI	2249
													CaimyI	2250
.2 Monitor TVA work performed under mortality subagreement (1Q,2Q,3Q,4Q81)													CaimyI	2251
													CaimyI	2252
.3 Perform follow-up on subjects not in TVA retirement system. Tape supplied by TVA (3Q81)													CaimyI	2253
													CaimyI	2254
.4 Receipt of death certificates from TVA - subjects in TVA retirement system (1Q,2Q,3Q81)													CaimyI	2255
													CaimyI	2256
.5 Order death certificates for subjects not in TVA retirement system (3Q81)													CaimyI	2257
													CaimyI	2258
.6 Obtain remaining death certificates - in excess of 1000 (4Q81)													CaimyI	2259
													CaimyI	2260
.7 Send death certificates to NCHS for ICD coding (1Q,2Q,3Q,4Q81)													CaimyI	2261
													CaimyI	2262
.8 Receive all coded death certificates from NCHS (4Q81)													CaimyI	2263
.9 Interim IH report submitted by TVA and received by NIOSH (2Q81)													CaimyI	2264
													CaimyI	2265
.10 Final IH report reviewed and comments submitted by TVA (3Q81)													CaimyI	2266
													CaimyI	2267
.11 Complete protocol for IH characterization of welding environment (4Q81)													CaimyI	2268
													CaimyI	2269
.12 Combine tapes for subjects in and not in TVA retirement system			o										CaimyI	2270
													CaimyI	2271
.13 Supply TVA complete tape			o										CaimyI	2272
.14 Complete IH characterization of welding environment						o							CaimyI	2273
.15 Mortality analysis completed - TVA						o							CaimyI	2274
.16 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS						o							CaimyI	2275
													CaimyI	2276
.17 Cooperative (NIOSH & TVA) analysis and preparation of journal articles (open)													CaimyI	2277
													CaimyI	2278
													CaimyI	2279

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
14. Mortality Study Diesel Engine Mechanics	79	83					I	g	a				CayiyI	2282
(Costello J 304-599-7476) (VKL-bpB-193) (0.4/8.0/20.0)													CayiyI	2283
(100/VCa-Iyi-193)													CayiyI	2284
													CayiyI	2285
.1 Initial cohort gathered from selected bus garage workers													CayiyI	2286
and railroad shop repairmen - done through local unions													CayiyI	2287
of the Machinists Union. n=approx 3500 (FY79 & 80)													CayiyI	2288
.2 Negotiate with Machinists International to expand													CayiyI	2289
cohort (1Q81)													CayiyI	2290
.3 Negotiate with Federal Railroad Retirement Board - referral													CayiyI	2291
from Machinists Union (2Q81)													CayiyI	2292
.4 Five percent (5%) sample requested from FRRB (3Q81)													CayiyI	2293
.5 Receive data from FRRB (4Q81)													CayiyI	2294
.6 Process and code data from FRRB - no follow-back													CayiyI	2295
required			o										CayiyI	2296
.7 Follow-back with postmasters, IRS, SSA, to determine													CayiyI	2297
vital status on original cohort				o									CayiyI	2298
.8 Complete building master tape on original cohort,													CayiyI	2299
plus FRRB workers					o								CayiyI	2300
.9 Order death certificates on original cohort,													CayiyI	2301
plus acquire death notices from FRRB					o								CayiyI	2302
.10 Death certificate coding						o							CayiyI	2303
.11 Submit Equifax renewal RFC			o										CayiyI	2304
.12 Updating of master file (computer processing) for													CayiyI	2305
analysis (1Q83)													CayiyI	2306
.13 Complete analysis and report writing (3Q83)													CayiyI	2307
.14 Complete final report and submit abstract to Director,													CayiyI	2308
NIOSH, with copy of report and abstract to DTS (4Q83)													CayiyI	2309
													CayiyI	2310

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
15. Occupational Exposure to Phthalic Anhydride (Sanderson W 304 599-7421)(2.0/44.9/104.9)(0.5/17.4/34.9) (100/VCb-Iyy-156)	82	84					I	c	a				CbyyyI	2314
													CbyyyI	2315
													CbyyyI	2316
													CbyyyI	2317
.1 Submit interim report and anthology reviewing current literature to Director, DRDS			o										CbyyyI	2318
													CbyyyI	2319
.2 Submit a draft of environmental study protocol to Director, DRDS				o									CbyyyI	2320
													CbyyyI	2321
.3 Submit to Director, DRDS a draft of laboratory study protocol				o									CbyyyI	2322
													CbyyyI	2323
.4 Complete tripartite meeting and consultation with industry and labor concerning proposed study					o								CbyyyI	2324
					o								CbyyyI	2325
.5 Submit package for HSRB clearance						o							CbyyyI	2326
.6 Completion of walk-thru surveys of industry						o							CbyyyI	2327
.7 Award contract for immunology analysis						o							CbyyyI	2328
.8 Completion of study protocol including results of walk-thru studies (1Q83)													CbyyyI	2329
													CbyyyI	2330
.9 Initiate field studies (2Q83)													CbyyyI	2331
.10 Submit draft of proposed method of data reduction and analysis, including format of plant reports and data coding system to Director, DRDS (3Q83)													CbyyyI	2332
													CbyyyI	2333
													CbyyyI	2334
.11 Complete field studies (4Q83)													CbyyyI	2335
.12 Complete survey reports and data coding (1Q84)													CbyyyI	2336
.13 Submit draft final report for peer review (3Q84)													CbyyyI	2337
.14 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q84)													CbyyyI	2338
													CbyyyI	2339
													CbyyyI	2340
16. Morb/Mort/IH Study of Welding, Thermal Cutting, Brazing (Hewett P 304-599-7421)(3.0/50.0/140.0)(2.5/42.6/130.1) (100/VCb-Ipy-157)	82	84					I	c	e				CbpyrI	2343
													CbpyrI	2344
													CbpyrI	2345
													CbpyrI	2346
.1 Complete literature search and submit referenced review (for possible publication as a review article)			o										CbpyrI	2347
													CbpyrI	2348
.2 Meet with DPSE to establish chemistry protocol				o									CbpyrI	2349
.3 Prepare and submit draft environmental protocol				o									CbpyrI	2350
.4 Make contact with and solicit input from Trade Associations, labor union, and other Federal Agencies (e.g., AWS, DOD, ISWA, etc)													CbpyrI	2351
													CbpyrI	2352
				o									CbpyrI	2353
.5 Identify potential cohorts through walk-thru reviews of industrial operations				3	3	3							CbpyrI	2354
													CbpyrI	2355
.6 Submit interim report to Director, DRDS with plan for FY83 effort						o							CbpyrI	2356
													CbpyrI	2357
.7 Initiate examination of Morbidity/Mortality Data Base						o							CbpyrI	2358
.8 Outyear plan pending results of Phase I FY82 study													CbpyrI	2359
													CbpyrI	2360

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
17. Prevalence of Respiratory Disease in Poultry Confinement Industry	82	85					I	c	a				CbduyI	2363
(Morring K 304-599-7421)(VKP-cDd-162) (3.3/176.0/175.0)													CbduyI	2364
(2.0/50.0/120.0)(0.3/24.8/35.9)(100/VCb-Idu-162)													CbduyI	2365
													CbduyI	2366
													CbduyI	2367
.1 Submit referenced review of prior industrial hygiene characterizations of confinement facilities (EIB)			o										CbduyI	2368
.2 Complete review of medical literature (CIB)			o										CbduyI	2369
.3 Design medical questionnaire and develop clinical study design (CIB)				o									CbduyI	2370
.4 Identify poultry confinement systems available to study				o									CbduyI	2371
.5 Complete walk-thru surveys at selected facilities					o								CbduyI	2372
.6 Prepare sampling protocol for major toxic gases and organic dusts and other particulate matter found in confinement environments (EIB)					o								CbduyI	2373
.7 Develop study design to test immunologic parameters in exposed worker populations (LIB)					o								CbduyI	2374
.8 Complete environmental, medical, and laboratory study design and submit proposal for OMB approval					o								CbduyI	2375
.9 Initiate pilot study to test study design						o							CbduyI	2376
.10 Submit interim project report (1Q83)						o							CbduyI	2377
.11 Complete final medical/environmental study protocol used in comprehensive studies (1Q83)													CbduyI	2378
.12 Select facilities to be studied; submit survey schedule (1Q83). Complete summer characterization of confinement operations (4Q83)													CbduyI	2379
.13 Complete winter characterizations of confinement operations (2Q84)													CbduyI	2380
.14 Complete data analysis of medical, laboratory and environmental results (3Q84)													CbduyI	2381
.15 Prepare and submit draft final report to Director, DRDS (4Q84)													CbduyI	2382
.16 Submit final report to Director, DRDS (2Q85)													CbduyI	2383
.17 Submit report and abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q85)													CbduyI	2384
													CbduyI	2385
													CbduyI	2386
													CbduyI	2387
													CbduyI	2388
													CbduyI	2389
													CbduyI	2390
													CbduyI	2391
													CbduyI	2392
													CbduyI	2393
													CbduyI	2394
													CbduyI	2395
													CbduyI	2396
													CbduyI	2397
													CbduyI	2398

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
18. Aerosol Deposition in Humans	81	83					I	c	a				CbyjnI	2401
(McCawley M 304-599-7421)(VKP-hDy-163) (0.7/20.0/40.0)													CbyjnI	2402
(100/VCb-Iyj-163)													CbyjnI	2403
													CbyjnI	2404
.1 Conduct initial tests of aerosol deposition in 50 exposed													CbyjnI	2405
and 50 control subjects (baseline function)			o										CbyjnI	2406
.2 Conduct first follow-up of control and exposed subjects				o									CbyjnI	2407
.3 Conduct second follow-up of control and exposed subjects					o								CbyjnI	2408
.4 Conduct final follow-up of control and exposed subjects						o							CbyjnI	2409
.5 Prepare report on comparison of pulmonary function and													CbyjnI	2410
aerosol deposition measurements (2Q83)													CbyjnI	2411
.6 Purchase and construct fieldworthy instrument (2Q83)													CbyjnI	2412
.7 Conduct comparative deposition tests with German													CbyjnI	2413
collaborators (3Q83)													CbyjnI	2414
.8 Submit final report on instrument test, including operation													CbyjnI	2415
manual, and blueprints to Director, DRDS (4Q83)													CbyjnI	2416
.9 Submit fully tested aerosol deposition instrument to													CbyjnI	2417
Director, DRDS for use on future studies (4Q83)													CbyjnI	2418
													CbyjnI	2419
19. IH Characterization of F.B.C.	81	82					I	b	b				CbiyuI	2422
(Regad E 304-599-7421) (VKP-ciD-175)(100/VCb-Iiy-175)													CbiyuI	2423
													CbiyuI	2424
.1 Award contract (2Q81)													CbiyuI	2425
.2 Obtain work plan for survey from contractor (3Q81)													CbiyuI	2426
.3 Complete surveys of 2 FBC plants						o							CbiyuI	2427
.4 Decision point on extending contract based on technology													CbiyuI	2428
and engineering status of FBC facilities at this point													CbiyuI	2429
in time						o							CbiyuI	2430
.5 Receive final contractor reports on IH environment in													CbiyuI	2431
FBC facilities						o							CbiyuI	2432
.6 Submit final report and abstract to Director, NIOSH,													CbiyuI	2433
with copy of report and abstract to DTS						o							CbiyuI	2434
													CbiyuI	2435

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
20. IH Study of Coal Liquefaction Processes - EPA (Keane M 304-599-7421)(VKP-ciH-165)(2.0/240.0/300.0) (100/VCb-IIy-165)	77	83					I	b	c				CbiyhI	2438
													CbiyhI	2439
													CbiyhI	2440
													CbiyhI	2441
.1 Receipt of contractor's final report on 5 liquefaction facility comprehensive IH surveys			o										CbiyhI	2442
													CbiyhI	2443
.2 Review of contractor's report and other sources on findings in liquefaction facilities					o								CbiyhI	2444
.3 Comprehensive Industrial Hygiene Survey of the Exxon Donor Solvent, operation on lignite, subject to entry agreement and operation schedule				o									CbiyhI	2445
													CbiyhI	2446
													CbiyhI	2447
.4 IH survey or Exxon Donor Solvent facility during plant turnarcund, subject to entry agreement and operating schedule					o								CbiyhI	2448
													CbiyhI	2449
													CbiyhI	2450
.5 Turnaround survey of H-coal facility subject to entry agreement and operating schedule					o								CbiyhI	2451
													CbiyhI	2452
.6 Draft report detailing findings pertaining to occupational health in liquefaction facilities, to Director, NIOSH, and recommendations for additional studies (1Q83)													CbiyhI	2453
													CbiyhI	2454
													CbiyhI	2455
													CbiyhI	2456
.7 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS (2Q83)													CbiyhI	2457
													CbiyhI	2458
													CbiyhI	2459
													CbiyhI	2460
21. OH Studies of Gasification Processes - EPA (Reaux C 304-599-7421)(VKP-ciD-172) (2.0/80.0/140.0)(2.0/70.0/140.0)(100/VCb-IIy-172)	77	84					I	g	c				CbiyuI	2463
													CbiyuI	2464
													CbiyuI	2465
													CbiyuI	2466
.1 Review IH characterization data from Caterpillar, CE, and Westinghouse gasifiers				o									CbiyuI	2467
													CbiyuI	2468
.2 Gasification site IH field studies			o		o	o							CbiyuI	2469
.3 Draft comprehensive report on data to date						o							CbiyuI	2470
.4 Initiate Kosova, Yugoslavia Lurgi gasifier study					o								CbiyuI	2471
.5 Completion of TVA-Texaco gasifier IH studies Under Interagency Agreement (4Q83)													CbiyuI	2472
													CbiyuI	2473
.7 Completion of gasifier pilot plant field studies (4Q83)													CbiyuI	2474
.8 Complete Phase I of Yugoslavia study, Interagency decision on Phase 2 (3Q84)													CbiyuI	2475
													CbiyuI	2476
.9 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS (3Q84)													CbiyuI	2477
													CbiyuI	2478
													CbiyuI	2479

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
22. ON Studies of Oil-Shale Processes-EPA (Wheeler R 304-599-7421)(VKP-cip-166)(100/VCb-Iiy-166)	81	82					I	c	c				CbiyuI	2482
													CbiyuI	2483
													CbiyuI	2484
.1 IH characterization of Logan Oil Shale Retort					o								CbiyuI	2485
.2 IH characterization of Occidental C/B Modified In Situ mine preparation					o								CbiyuI	2486
					o								CbiyuI	2487
.3 IH characterization of Colony Mine preparation						o							CbiyuI	2488
.4 IH charaterization of Tar Sands Facility (2Q83)													CbiyuI	2489
.5 IH characterization of Colony Mine Operation (3Q83)													CbiyuI	2490
.6 Comprehensive review of NIOSH and National Labs Oil Shale Toxicology data to date (4Q83)													CbiyuI	2491
													CbiyuI	2492
.7 Submit report and abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q83)													CbiyuI	2493
													CbiyuI	2494
													CbiyuI	2495
23. Hypersensitivity Pneumonitis Due to Humidifiers (Kullman G 304-599-7421)(VKP-cDd-160)(0.7/17.3/38.3) (100/VCb-Idy-160)	81	83					I	c	a				CbdyyI	2498
													CbdyyI	2499
													CbdyyI	2500
													CbdyyI	2501
.1 Complete one (1) walk-thru/sampling survey at a problem facility (4Q81)													CbdyyI	2502
													CbdyyI	2503
.2 Complete an interim report on FY81 accomplishments			o										CbdyyI	2504
.3 Apply for clearance to take blood samples in FY82			o										CbdyyI	2505
.4 Complete comparative tests on viable sampling equipment				o									CbdyyI	2506
.5 Finalize environmental protocol					o								CbdyyI	2507
.6 Complete field survey(s)					o	o							CbdyyI	2508
.7 Meet with CIB Section to discuss their involvement in the project for FY83						o							CbdyyI	2509
.8 Complete second interim report						o							CbdyyI	2510
.9 Future direction pending results of FY82 study; to be drafted per milestone 7, FY83													CbdyyI	2511
													CbdyyI	2512
													CbdyyI	2513
													CbdyyI	2514

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
24. Demonstration Plant OH Studies	81	84					I	c	b				CbiyuI	2517
(Regad E 304-599-7421)(1.5/115.0/160.0)(1.5/77.5/130.0)													CbiyuI	2518
(100/VCb-Iiy-152)													CbiyuI	2519
													CbiyuI	2520
.1 Identify technologies likely to be implemented			o										CbiyuI	2521
.2 Establish industy/sybfuels corporation liason				o									CbiyuI	2522
.3 Identify and select from plants available for review			o										CbiuyI	2523
.4 Identify plant starts projected for FY83			o										CbiuyI	2524
.5 Request design information for FY82 plants			o										CbiuyI	2525
.6 Commence design IH study, FY82 plants				o									CbiuyI	2526
.7 Request design information FY83 plants (contingent on bid announcements)				o									CbiuyI	2527
.8 Conduct field IH characterization of improved coal combustion technology						o							CbiyuI	2528
.9 Complete design review, FY82 plants						o							CbiyuI	2529
.10 Submit report and abstract on FY82 plants to Director, NIOSH, with copy of report and abstract to DTS (1Q83)													CbiuyI	2530
													CbiuyI	2531
													CbiuyI	2532
													CbiuyI	2533
													CbiyuI	2534
25. Determination of Respiratory Mechanics by Force Oscillations	82	82					I	c	a				CcjdyI	2537
(Hankinson J 304-599-7755)(100/VCc-Ijd-213)													CcjdyI	2538
													CcjdyI	2539
.1 Submit research protocol to HSRB			o										CcjdyI	2540
.2 Submit requisition for equipment			o										CcjdyI	2541
.3 Complete collection of data on approximately 14 subjects (cumulative)				7		14							CcjdyI	2542
.4 Complete field testing of system						o							CcjdyI	2543
.5 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS						o							CcjdyI	2544
													CcjdyI	2545
													CcjdyI	2546
													CcjdyI	2547
26. Spirometer Testing	81	82					I	c	a				CcmnyI	2550
(Hankinson J 304-599-7755) (VKH-mOp-219)													CcmnyI	2551
(100/VCc-Imn-[illegible])													CcmnyI	2552
													CcmnyI	2553
.1 Implement spirometer testing program			o										CcmnyI	2554
.2 Test spirometers submitted			o	o	o	o							CcmnyI	2555
.a Cumulative ( ) tested			( )	( )	( )	( )							CcmnyI	2556
.b Number approved ( )			( )	( )	( )	( )							CcmnyI	2557
													CcmnyI	2558

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
27. Cross-sectional Medical/IH Survey - Non-Textile Cotton	76	82					I	b	a				CcjgdI	2561
(Marchant J 304-599-7474) (VKH-nDr-216)(100/VCc-Ijg-216)													CcjgdI	2562
													CcjgdI	2563
.1 Complete individual (14) plant reports and final report of medical-environmental results: warehouse/compress segment			o										CcjgdI	2564
													CcjgdI	2565
													CcjgdI	2566
.2 Complete individual (14) plant reports and final report: cottonseed oil mill segment				o									CcjgdI	2567
													CcjgdI	2568
.3 Initiate bioassays of archived filters				o									CcjgdI	2569
.4 Complete plant report (6) and final report: classification office segment													CcjgdI	2570
					o								CcjgdI	2571
.5 Submit final reports and abstracts to Director, NIOSH, with copies of reports and abstracts to DTS						o							CcjgdI	2572
													CcjgdI	2573
.6 Submit project-related paper to peer review journals for publication													CcjgdI	2574
						o							CcjgdI	2575
.7 Complete interim report on bioassay of collected filters						o							CcjgdI	2576
													CcjgdI	2577
28. Prospective EPI/IH Study of New & Ex-Coal Miners	77	82					I	c	b				CcmmiI	2580
(Hankinson J 304-599-7755) (VKH-bpD-214)(100/VCc-Imm-214)													CcmmiI	2581
													CcmmiI	2582
.1 Complete last round of follow-up studies (24 months)			o										CcmmiI	2583
.2 Complete collection of particle size distribution data				o									CcmmiI	2584
.3 Complete IH data analysis					o								CcmmiI	2585
.4 Complete all data analysis and correlations						o							CcmmiI	2586
.5 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS						o							CcmmiI	2587
			o										CcmmiI	2588
													CcmmiI	2589
29. Morb/IH Study of Cement Workers	78	82					I	b	d				CcdyyI	2592
(Abrons H 304-599-7755) (VKH-bpD-215)(100/VCc-Idy-215)													CcdyyI	2593
													CcdyyI	2594
.1 Complete medical studies at 3 cement plants and control plants													CcdyyI	2595
				o									CcdyyI	2596
.2 Complete IH studies at 3 cement plants and control plants				o									CcdyyI	2597
.3 Complete IH plant reports					o								CcdyyI	2598
.4 Complete data analysis						o							CcdyyI	2599
.5 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS						o							CcdyyI	2600
						o							CcdyyI	2601
													CcdyyI	2602

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
30. Evaluation of the Effects of Washed Cotton Dust (Castellan R) (VKA-eDg-105)(1.3/10.0/49.0)(100/VCc-Ijg-105)	81	83					I	g	h				CcjgdI	2605
													CcjgdI	2606
													CcjgdI	2607
.1 Complete screening and selection procedures and begin year long exposures			o										CcjgdI	2608
													CcjgdI	2609
.2 Complete analysis of FEV1 effect of three months exposure				o									CcjgdI	2610
													CcjgdI	2611
.3 Complete analysis of FEV1 effect of seven months exposure					o								CcjgdI	2612
													CcjgdI	2613
.4 Monitor NIOSH/UNC Technical Assistance. Ensure task is in schedule and deliverables are in production			o	o	o								CcjgdI	2614
													CcjgdI	2615
.5 Complete data collection (1Q83)													CcjgdI	2616
.6 Receive final report from NIOSH/UNC Technical Assistance, complete analysis, and submit final project report and abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q83)													CcjgdI	2617
													CcjgdI	2618
													CcjgdI	2619
													CcjgdI	2620
													CcjgdI	2621

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
31. Morb/Mort Study of Asbestos-Exposed Railroad Shop Workers	82	84					I	c	e				CcgkyI	2624
(Sepulveda M 304 599-7755)(2.0/100.0/195.0)(1.5/20.0/65.0)													CcgkyI	2625
(VCc-Igk-220)													CcgkyI	2626
MORBIDITY													CcgkyI	2627
.1 Define and identify survivor population			o										CcgkyI	2628
.2 Negotiate testing facility with Con Rail and Reading Health Officials			o										CcgkyI	2629
													CcgkyI	2630
.3 Negotiate services for x-ray from medical contractors			o										CcgkyI	2631
.4 Survivor recruitment: mail, phone, hot line, local media blitz													CcgkyI	2632
			o										CcgkyI	2633
.5 Execute screening			o										CcgkyI	2634
.6 X-ray "B" readings and questionnaire coding					o								CcgkyI	2635
.7 Analysis					o								CcgkyI	2636
.8 Report					o								CcgkyI	2637
MORTALITY													CcgkyI	2638
.1 Cohort identification													CcgkyI	2639
a. Negotiate with Fed RR Retirement Board - access to computer file and noncomputerized recrrds													CcgkyI	2640
				o									CcgkyI	2641
b. Receive computer records from FRRB					o								CcgkyI	2642
c. Microfilm of noncomputerized records (1Q83)													CcgkyI	2643
.2 Process and code data from FRRB (1Q83)													CcgkyI	2644
.3 Follow-back with postmasters, IRS, SSA to determine vital status on cohort (2Q83)													CcgkyI	2645
													CcgkyI	2646
.4 Begin case locator searches (2Q83)													CcgkyI	2647
.5 Acquire death notices from FRRB and order death certificates from states													CcgkyI	2648
						o							CcgkyI	2649
.6 Complete master file for analysis (1Q84)													CcgkyI	2650
.7 Analysis and report writing (2Q84)													CcgkyI	2651
.8 Complete final report and submit abstract to Director, NIOSH, with copy of report and abstract to DTS (2Q84)													CcgkyI	2652
													CcgkyI	2653
													CcgkyI	2654
32. National Coal Workers' Autopsy Study-Support	71	C					I	c	b				CdminI	2657
(Green F 304-599-7581) (VKC-apD-138)(100/VCd-Imi-138)													CdminI	2658
													CdminI	2659
.1 Complete review of cases within two weeks of request			o	o	o	o							CdminI	2660
.2 Administer Coal Mine Disaster Plan as necessary			o	o	o	o							CdminI	2661
.3 Publicize NCWAS			o	o	o	o							CdminI	2662
.4 Present Display as ASCP/CAP Meeting			o										CdminI	2663
.5 Review cases and assess data for 1971-80					o								CdminI	2664
.6 Complete analysis of lung cancer cases			o										CdminI	2665
.7 Complete analysis of stomach cancer cases					o								CdminI	2666
.8 Complete analysis of elemental and particulate content of lesion of CWP					o								CdminI	2667
													CdminI	2668
													CdminI	2669

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
33. Allergic Aspects of Occupational Lung Disease (Lewis D 304-599-7256)(1.0/86.6/116.6)(1.0/105.0/140.0) (100/VCd-Idy-107)	82	84					I	c	a				CddyyI	2672
													CddyyI	2673
													CddyyI	2674
													CddyyI	2675
.1 Procure gamma counter, reference reagents, and common allergen kits. Standardize RAST and RAST inhibition assays, and begin sample collection of sera of agricultural workers exposed to organic dusts			o										CddyyI	2676
													CddyyI	2677
													CddyyI	2678
													CddyyI	2679
.2 Complete protocol development for all assays (RAST, RAST Inhibition, SPRIA, and PRIST) and validate all assays in standardized system. Begin analysis of serum samples collected above, and continue to collect sera				o									CddyyI	2680
													CddyyI	2681
													CddyyI	2682
													CddyyI	2683
.3 Identify positive sera and use those sera to determine utility of RAST inhibition assay in detecting airborne allergen quantitatively. Collect airborne and settled dust samples					o								CddyyI	2684
													CddyyI	2685
													CddyyI	2686
													CddyyI	2687
.4 Complete analysis of airborne and settle dust for allergen content. Correlate results with organic and biochemical analysis of the dusts. Complete immunochemical analysis of sera of exposed workers						o							CddyyI	2688
													CddyyI	2689
													CddyyI	2690
													CddyyI	2691
.5 Begin pilot study on chemical characterization of allergens in organic dust. Continue sample collections (dust and sera) in relevant industrial settings, so that regional variations in allergen content or incidence of allergy may be determined (1Q83)													CddyyI	2692
													CddyyI	2693
													CddyyI	2694
													CddyyI	2695
													CddyyI	2696
.6 Complete pilot study on chemical characterization of allergens. Begin detailed chemical analysis of allergens (3Q83)													CddyyI	2697
													CddyyI	2698
													CddyyI	2699
.7 Complete the study of regional variations in allergen content of dusts and incidence of allergy (4Q83)													CddyyI	2700
													CddyyI	2701
.8 Prepare detailed protocols for preparation of extracts and performance of assay for future studies by contractors or other NIOSH laboratories (3Q84)													CddyyI	2702
													CddyyI	2703
													CddyyI	2704
.9 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q84)													CddyyI	2705
													CddyyI	2706
													CddyyI	2707

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
34. Comparative Toxicity/Pathogenicity of Mineral Dusts (Vallyathan V. 304 599-7581)(1.2/80.6/116.6)(1.0/35.0/70.0) (1.0/35.0/70.0)(100/VCd-Img-108)	82	85					I	c	d				CdmgkI	2710
													CdmgkI	2711
													CdmgkI	2712
													CdmgkI	2713
.1 Training personnel in animal experimentation, tissue preparations				o									CdmgkI	2714
													CdmgkI	2715
.2 Experimental design, planning protocol studies, dust sample collections from workplaces, dust sample fractionations, preparations, pilot studies			o	o	o	o							CdmgkI	2716
													CdmgkI	2717
													CdmgkI	2718
.3 Mineral identification, characterization				o		o							CdmgkI	2719
.4 Histopathological studies of few selected dusts				o		o							CdmgkI	2720
													CdmgkI	2721
35. Immunology of Grain and Other Organic Dusts (Olenchock S 304-599-7256)(VKC-cDn-109)(100/VCd-Idy-109)	80	82					I	c	a				CddyiI	2724
													CddyiI	2725
													CddyiI	2726
.1 Initiate new studies on complement and organic dusts (1Q80)													CddyiI	2727
.2 Complete examination of bacterial endotoxins contamination of cotton dust samples and animal confinement dusts (2Q80)													CddyiI	2728
													CddyiI	2729
													CddyiI	2730
.3 Complete analyses for complement in sera from workers exposed to dust in model cardroom (4Q80)													CddyiI	2731
													CddyiI	2732
.4 Initiate collaboration (EpIB) on wood dust studies to evaluate complement activation by wood dusts, associated products and other derivations (2Q81)													CddyiI	2733
													CddyiI	2734
													CddyiI	2735
.5 Complete report of airborne endotoxin levels in poultry processing plant (2Q81)													CddyiI	2736
													CddyiI	2737
.6 Complete endotoxin determinations on airborne dust samples from model cotton cardroom 1980 exposure study (2Q81)													CddyiI	2738
													CddyiI	2739
.7 Complete complemant analyses on serum from subjects in model cardroom 1980 exposure study (3Q81)													CddyiI	2740
													CddyiI	2741
.8 Complete endotoxin analyses of airborne dust from 1981 intermediate study of model cardroom exposure (4Q81)													CddyiI	2742
													CddyiI	2743
.9 Complete analysis of cotton textile workers sera for antibodies to hypersensitivity pneumonitis panel (4Q81)													CddyiI	2744
													CddyiI	2745
.10 Complete collection of pre-exposure samples from model cardroom prospective study			o										CddyiI	2746
													CddyiI	2747
.11 Complete preliminary characterizations of grain dust					o								CddyiI	2748
.12 Expose animals to grain dust/components and evaluate pulmonary response						o							CddyiI	2749
						o							CddyiI	2750
.13 Complete Phase I of sample collection and wood dust collaborative study						o							CddyiI	2751
						o							CddyiI	2752
.14 Complete final report and submit abstract to Director, NIOSH, with copy of report and abstract to DTS						o							CddyiI	2753
						o							CddyiI	2754
													CddyiI	2755

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	PLANNED 3Q	PLANNED 4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
36. Organic Dust: Airway Smooth Muscle and Nerve Effects (Fedan J 304-599-7561)(VKC-cDd-110) (2.1/7.1/80.1) (100/VCd-Ijg-110)	81	83					I	c	a				CdjgyI	2758
													CdjgyI	2759
													CdjgyI	2760
													CdjgyI	2761
													CdjgyI	2762
.1 Complete studies on effects of cotton dust on broncho-constriction and neurotransmission				o									CdjgyI	2763
													CdjgyI	2764
.2 Complete studies on effects of phthalic anhydrides on bronchoconstriction and neurotransmissison						o							CdjgyI	2765
													CdjgyI	2766
.3 Complete studies on effects of soybean dust on bronchoconstriction and neurotransmission (2Q83)													CdjgyI	2767
													CdjgyI	2768
.4 Complete studies on effects of wood dust on bronchoconstriction and neurotransmission (4Q83)													CdjgyI	2769
													CdjgyI	2770
.5 Complete final report and submit abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q83)													CdjgyI	2771
													CdjgyI	2772
37. Effects of Trace Metal Exposure on Isolated Lung Cells (Castranova V 304-599-7561)(VKC-cDp-126) (3.3/21.0/120.0)(100/VCd-Iqr-126)	81	83					I	c	d				CdqryI	2775
													CdqryI	2776
													CdqryI	2777
													CdqryI	2778
.1 Measure the effects of metallic ions on the membrane integrity of type II cells			o										CdqryI	2779
													CdqryI	2780
.2 Measure the effects of metallic ions on chemiluminescence in alveolar macrophages				o									CdqryI	2781
													CdqryI	2782
.3 Develop cultures of alveolar macrophages					o								CdqryI	2783
.4 Measure effects of metallic ions on oxygen consumption of macrophages in culture						o							CdqryI	2784
													CdqryI	2785
.5 Measure effects of metallic ions on the cellular volume of macrophages in culture (1Q83)													CdqryI	2786
													CdqryI	2787
.6 Measure effects of metallic particles on oxygen consumption of macrophages in culture (2Q83)													CdqryI	2788
													CdqryI	2789
.7 Measure effects of metallic particles on cellular volume of macrophages in culture (3Q83)													CdqryI	2790
													CdqryI	2791
.8 Submit final report and abstract to Director, NIOSH with copy of report and abstract to DTS (4Q83)													CdqryI	2792
													CdqryI	2793
													CdqryI	2794

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000		
38. Immunopathology of Organic Dust Pneumoconiosis (Mentnech M 304-599-7256)(VKC-cDd-124) (0.9/57.0/84.0) (100/VCd-Idy-124)	81	83					I	c	a				CddyJI	2797
													CddjyI	2798
													CddjyI	2799
													CddjyI	2800
.1 Complete the experiment on effects of cortosone on "zymosan" lung and prepare manuscript (1Q81)													CddjyI	2801
													CddjyI	2802
.2 Complete enzyme studies on alveolar macrophages (2Q81)													CddjyI	2803
.3 Complete hemolytic assays with volcanic ash and selected dusts (3Q81)													CddjyI	2804
													CddjyI	2805
.4 Intratracheal instillation amd aerosol exposure of volcanic ash in vivo (3Q81)													CddjyI	2806
													CddjyI	2807
.5 Complete enzyme studies with rat alveolar macrophages exposed to volcanic ash in vitro (3Q81)													CddjyI	2808
													CddjyI	2809
.6 Complete analysis of alveolar macrophage changes in response to cotton dust in vitro (4Q81)													CddjyI	2810
													CddjyI	2811
.7 Complete the survey of selected pharmacological agents on the animal lesion induced by zymosan					o								CddjyI	2812
													CddjyI	2813
.8 Complete the immunoflourescent studies					o								CddjyI	2814
													CddjyI	2815
.9 Complete the working file of occupationally diseased tissues and prepare manuscript of finding						o							CddjyI	2816
													CddjyI	2817
.10 Complete appraisal of analytical techniques for organic antigens insitu (2Q83)													CddjyI	2818
													CddjyI	2819
.11 Complete the clearance studies of selected organic antigens (3Q83)													CddjyI	2820
													CddjyI	2821
.12 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q83)													CddjyI	2822
													CddjyI	2823

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
39. Early Events in Immune Response to Organic Dusts (Lewis D 304-599-7256) (VKC-cDd-122)(0.8/46.0/70.0) (100/VCd-Idy-122)	81	83					I	c	a				CddyjI	2826
													CddyjI	2827
													CddyjI	2828
													CddyjI	2829
.1 Complete protocol development for study of mitogenic nature of organic dusts (2Q81)													CddyjI	2830
													CddyjI	2831
.2 Complete analysis of serum factors in cohort of loggers, Phase I (3Q81)													CddyjI	2832
													CddyjI	2833
.3 Complete analysis of serum factors in cohort of loggers, Phase II (4Q81)													CddyjI	2834
													CddyjI	2835
.4 Complete study of mitogenic activities of selected organic dusts (4Q81)													CddyjI	2836
													CddyjI	2837
.5 Identify cell populations affected by selected organic dust extracts			o										CddyjI	2838
													CddyjI	2839
.6 Begin isolation and/or identification of mediators released in response to organic dust exposure				o									CddyjI	2840
													CddyjI	2841
.7 Analyze mediator formation in vivo after aerosol/intra-tracheal exposure to organic dust						o							CddyjI	2842
													CddyjI	2843
.8 Complete analysis of in vivo mediator release and correlate results with antibody formation (2Q83)													CddyjI	2844
													CddyjI	2845
.9 Complete attempt to isolate and/or identify mediators released in response to organic dust exposure (3Q83)													CddyjI	2846
													CddyjI	2847
.10 Complete final report and submit abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q83)													CddyjI	2848
													CddyjI	2849
													CddyjI	2850
40. Methods Development for Evaluating Lung Disease (Frazer D 304-599-7561)(VKC-iDp-127)(1.5/30.0/75.0) (100/VCd-Idy-127)	81	83					I	c	a				CddyyI	2853
													CddyyI	2854
													CddyyI	2855
													CddyyI	2856
.1 Assemble and test equipment for measuring lung sounds and trapped gas in animal lungs				o									CddyyI	2857
													CddyyI	2858
.2 Simultaneously measure lung sounds and gas trapping in excised lungs and identify the sounds associated with gas trapping					o								CddyyI	2859
													CddyyI	2860
													CddyyI	2861
.3 Simultaneously measure lung sounds and gas trapping in live animals and identify sounds associated with gas trapping						o							CddyyI	2862
													CddyyI	2863
													CddyyI	2864
.4 Assemble and test equipment for simultaneously measuring lung sounds and trapped gas in humans (2Q83)													CddyyI	2865
													CddyyI	2866
.5 Measure lung sounds and trapped gas simultaneously in humans and characterize the sounds of the different events associated with the gas trapping process in humans (3Q83)													CddyyI	2867
													CddyyI	2868
													CddyyI	2869
													CddyyI	2870
.6 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q83)													CddyyI	2871
													CddyyI	2872
													CddyyI	2873

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
41. Aerosol Inhalation - Disease Mechanisms (Frazer D 304-599-7561)(VKC-cDp-128)(1.7/34.0/85.0) (100/VCd-Iry-128)	81	83					I	c	a				CdryyI	2876
													CdryyI	2877
													CdryyI	2878
													CdryyI	2879
.1 Complete system for making morphological measurements of rat lungs				o									CdryyI	2880
													CdryyI	2881
.2 Complete testing of exposure system					o								CdryyI	2882
.3 Expose rats to test aerosols						o							CdryyI	2883
.4 Examine lung morphometry of exposed rats (1Q83)													CdryyI	2884
.5 Compare lung function differences between exposed and control animals (2Q83)													CdryyI	2885
													CdryyI	2886
.6 Provide exposed animals to other investigators (3Q83)													CdryyI	2887
.7 Submit final report and abstract to Director, NIOSH with copy of report and abstract to DTS (4Q83)													CdryyI	2888
													CdryyI	2889
													CdryyI	2890
42. Cellular Toxicity of Mineral Dusts (Pailes W 304-599-7561)(VKC-cDg-119)(100/VCd-Idg-119)	80	82					I	d	g				CddgtI	2893
													CddgtI	2894
													CddgtI	2895
.1 Determine the effects of Wollastonite, asbestos and latex particles on membrane integrity of lung macrophages			o										CddgtI	2896
													CddgtI	2897
													CddgtI	2898
.2 Determine the effects of Wollastonite, asbestos and latex particles on the selective release of lysosomal enzymes from cultures of lung macrophages				o									CddgtI	2899
													CddgtI	2900
													CddgtI	2901
.3 Determine the effects of lysates from particle-exposed macrophages on cultured lung fibroblast growth					o								CddgtI	2902
													CddgtI	2903
.4 Complete final report and abstract to Director, NIOSH with copy of report and abstract to DTS						o							CddgtI	2904
													CddgtI	2905
													CddgtI	2906
43. Effect of Mycotoxins on Pulmonary Macrophages (Sorenson W 304-599-7516)(VKC-cdh-106) (1.0/50.0/80.0) (100/VCd-Iyd-106)	81	83					I	c	a				CdyduI	2909
													CdyduI	2910
													CdyduI	2911
													CdyduI	2912
.1 Complete analysis of air samples			o										CdyduI	2913
.2 Complete study of the effect of mycotoxins on production of specific inducible AM proteins					o								CdyduI	2914
													CdyduI	2915
.3 Complete study of effect of mycotoxins on total cellular ATP						o							CdyduI	2916
													CdyduI	2917
.4 Complete study of syngistic effects of mycotoxins on in vivo AM functions (3Q83)													CdyduI	2918
													CdyduI	2919
.5 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS (4[illegible])													CdyduI	2920
													CdyduI	2921
													CdyduI	2922

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
44. NRC Postdoctoral Fellowship Program (162.0)	81	C					I	a	a				CddyyI	2925
(Weber K 304-599-7561)(100/VCd-Idy-132)													CddyyI	2926
													CddyyI	2927
.1 Complete final report on FY81 activities			o										CddyyI	2928
.2 Publicize availability of NRC program			o										CddyyI	2929
.3 Recruit potential NRC candidates				o									CddyyI	2930
.4 Select NRC fellows					o								CddyyI	2931
.5 File yearly evaluations and report						o							CddyyI	2932
.6 Administrate continuing program (FY84)													CddyyI	2933
													CddyyI	2934
DIVISION OF SURVEILLANCE, HAZARD EVALUATIONS AND FIELD STUDIES													D I	2936
													D I	2937
45. Environmental Assessment of New Abrasive Blasting Agents	82	82					I	c	a				DbnnnI	2939
(Harry Donaldson 513-684-3255)													DbnnnI	2940
(100/VMH-Inn-579)													DbnnnI	2941
													DbnnnI	2942
A. Complete tripartite review.			o										DbnnnI	2943
B. Initiate walk-through surveys.				o									DbnnnI	2944
C. Complete walk-through surveys.					o								DbnnnI	2945
D. Complete preliminary report and decide if feasible to proceed.						o							DbnnnI	2946
													DbnnnI	2947

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CUTANEOUS DISORDERS

Diseases of the skin are generally recognized as the most common of all occupational illnesses. According to the BLS annual survey of occupational injuries and illnesses, skin diseases and disorders have accounted for more than 40 percent of all reported occupational diseases each year from 1972 through 1976. The average annual incidence of occupational skin disease for the private sector for 1972-1976 was 1.5 cases per 1,000 workers, according to BLS data. During 1975 one of every 11 private-sector employees (9.1 percent) experienced a job-related injury or illness of some kind. The vast majority of these (96.7 percent) were classified as injuries; only 3.27 percent were classified as illnesses, and only 1.49 percent were skin diseases or disorders. Comparison of the last two figures reveals the origin of the 40 percent figure for skin problems cited above.

Considered in perspective, these statistics seem to indicate that occupational illness is a very minor proportion of total occupational health problems. However, a Stanford Research Institute report and the Discher Report, both of which evaluated existing data sources of occupational health statistics, cast considerable doubt on such a conclusion. The serious under-reporting of occupational disease and the inadequacy of the reporting system may mean that the true incidence is anywhere from 10 to 50 times greater than reported in the BLS data. Schwartz, Tulipan, and Birmingham have indicated that approximately 1 percent of the work force may be affected by occupational skin disease at any given time. Data from the 1976 BLS annual survey show that occupational skin diseases or disorders were unevenly distributed among industries. These diseases are more prevalent in agriculture and manufacturing: the agriculture industry, which employed 1 percent of the private sector work force, had 4 percent; manufacturing, with 30 percent of the work force, accounted for 65 percent of skin disease. The agriculture industry had the highest incidence for both total cases and lost workday cases, the second highest incidence rate for lost workdays, and the second highest for the other two types of cases. All other industries had low incidence rates for all three aspects of cases.

Annual cost of occupational skin disease could be used as a measure of the significance of occupational skin disease. Using the BLS data and averaging the 1975-1976 figures, approximately 200,000 lost workdays are attributable annually to occupationally induced skin problems. Assuming an average pay rate of $6.00 per hour, this represents a direct economic cost due to the lost productivity of absent workers of $9.6 million. Adding the cost of a less efficient replacement worker, indemnity, medical costs, and insurance could easily increase this figure two to three times (i.e., to $20-30 million annually).

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Office of Extramural Coordination and Special Projects

The OECSP dermatology program, established at the request of Congress, includes all aspects of occupationally related dermatology, both intramural and extramural, clinical, research, and training. Assistance is provided to DSHEFS and DRDS HHEs that involve skin problems. This consists of both informal consultations with the investigator and field visits with formal consultation reports. Similar assistance is provided for industrywide studies, in both their planning and conduct. With respect to the extramural grants program, assistance is provided to prospective grantees upon their request. Upon receipt of grant applications, assistance is provided to the Grants Administration and Review Branch in obtaining appropriate outside reviews of dermatology grants. Once approved, assistance is provided in preparing for the Institute's secondary review of grants. Once awarded, technical advice is provided.

Liaison with national dermatologic organizations is provided. An OECSP representative is a member of the American Academy of Dermatology's Task Force on Occupational and Environmental Dermatology and its NIH Liaison Steering Committee. Training is provided to Epidemic Intelligence Service officers both formally in the form of lectures, such as at DSHEFS scientific seminars and the OECSP occupational medicine course, and informally in relation to clinical studies. An AAD-accredited Continuing Medical Education course in occupational dermatology will be given every 2 to 3 years, cosponsored by OECSP and an academic center. Assistance is provided in the peer review of intramural skin research projects, usually in DBBS. Similar assistance is provided in the preparation of skin-related Requests for Proposals and the review of responses to those RFPs, again usually for DBBS. Liaison is provided with other Federal agencies involved in dermatologic research. An OECSP representative is a member of the Ad Hoc Interagency Dermatology Working Group which includes representatives from EPA, FDA, and various Institutes within NIH.

Division of Biomedical and Behavioral Sciences

DBBS is currently assessing existing methods, and developing new methods, for identifying phototoxic compounds and for determining percutaneous absorption rates of chemicals through intact skin. A study for OSHA completed during FY 1981 determined the degree of penetration of the skin and uptake by the body of MOCA [4,4'-methylenebis(2-chloroanaline)]. The techniques developed, including monitoring of metabolites in urine excretion, will be extended to a similar study of glycol ether mixtures in FY 1982. This program is expected to facilitate early identification of cutaneous hazards and provide support for control technology and protective clothing research.

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
********CUTANEOUS DISORDERS********													J	2951
													J	2952
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE													A J	2953
													A J	2954
1. Cutaneous Toxicity Hazards (A. Susten, 684-8357)	80	85					J	c	a				Achyy J	2956
(VOO-cFh-335)(2.4/34.5/100.0)(2.4/5.0/73.0)(2.4/5.0/73.0)													Achyy J	2957
(0.2/5.0/10.0)(100/VOO-Jhy-335)													Achyy J	2958
													Achyy J	2959
.1 Submit progress report to Director, DBBS			o	o	o	o							Achyy J	2960
.2 Complete literature review (4Q80)													Achyy J	2961
.3 Objective 1. Irritation and Sensitization Studies on NIOSH priority chemicals													Achyy J	2962
													Achyy J	2963
a. Develop hazard data sheet (1Q, 3Q80)													Achyy J	2964
b. Submit H.D.S. to Director, DBBS (1Q, 3Q80)													Achyy J	2965
c. Submit H.D.S. to all project staff (1Q, 3Q80)													Achyy J	2966
d. Complete acrolein study (2Q80)													Achyy J	2967
e. Complete N,N-dimethylacetamide study (4Q80)													Achyy J	2968
f. Complete ethyl silicate (3Q80)													Achyy J	2969
.4 Objective 2: Photosensitization													Achyy J	2970
a. Initiate comparisons of scoring methods (1Q81)													Achyy J	2971
b. Initiate literature review of screening methods (1Q81)													Achyy J	2972
c. Complete review of screening methods (2Q81)													Achyy J	2973
d. Complete comparisons of scoring methods			o										Achyy J	2974
e. Initiate in vivo tests of chemicals			o										Achyy J	2975
f. Initiate in vitro tests or biochemical screens				o									Achyy J	2976
g. Complete in vitro or biochemical screening (2Q84)													Achyy J	2977
h. Submit final report to Director, DBBS (4Q84)													Achyy J	2978
i. Submit abstract to Director, NIOSH (4Q84)													Achyy J	2979
.5 Objective 3: Percutaneous Absorption Model													Achyy J	2980
a. Initiate testing of chamber design (vapors)(3Q81)													Achyy J	2981
b. Complete testing of chamber design (vapors)				o									Achyy J	2982
c. Initiate percutaneous absorption kinetics study				o									Achyy J	2983
d. Complete kinetic study (1Q83)													Achyy J	2984
e. Initiate testing of system for liquids						o							Achyy J	2985
f. Complete testing of system for liquids (2Q83)													Achyy J	2986
g. Initiate testing (liquids) in second species (3Q83)													Achyy J	2987
h. Complete testing (liquids) in (1Q85)													Achyy J	2988
i. Submit report to Director, DBBS (1Q85)													Achyy J	2989
.6 Submit final overall project report to Director, DBBS (4Q85)													Achyy J	2990
.7 Subject abstract to Director, NIOSH (4Q85)													Achyy J	2991
.8 Submit project records to Q.A. Unit, DBBS (4Q85)													Achyy J	2992
													Achyy J	2993

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
2. Effects of Physical Trauma on the Skin (A. Susten, 684-8357)	81	84					J	b	a				AcyyyJ	2996
(VOO-cFf-336)(1.3/15.0/50.0)(0.4/1.0/15.0)(100/VOO-Jyy-336)													AcyyyJ	2997
													AcyyyJ	2998
.1 Complete peer review (1Q81)													AcyyyJ	2999
.2 Submit progress report to Director, DBBS			o	o	o	o							AcyyyJ	3000
.3 Objective 1: Review and analysis of World's Literature													AcyyyJ	3001
a. Submit RFC to Director, DBBS (1Q81)													AcyyyJ	3002
b. Submit RFC to OAMS (2Q81)													AcyyyJ	3003
c. Award contract (4Q81)													AcyyyJ	3004
d. Review monthly progress reports			o	o	o	o							AcyyyJ	3005
e. Review quarterly progress reports			o	o	o	o							AcyyyJ	3006
f. Review draft final report					o								AcyyyJ	3007
g. Review final literature report						o							AcyyyJ	3008
.4 Objective II-Symposium/Workshop													AcyyyJ	3009
a. Initiate planning for Workshop						o							AcyyyJ	3010
b. Hold symposium/Workshop (3Q83)													AcyyyJ	3011
c. Review draft final report of symposium proceedings (4Q83)													AcyyyJ	3012
d. Submit final report to Director, DBBS (2Q84)													AcyyyJ	3013
e. Submit abstract to Director, NIOSH (2Q84)													AcyyyJ	3014
.5 Submit project report to Director, DBBS (3Q84)													AcyyyJ	3015
.6 Submit abstract to Director, NIOSH (3Q84)													AcyyyJ	3016
.7 Submit project records to Q.A. Unit, DBBS (3Q84)													AcyyyJ	3017
													AcyyyJ	3018
OFFICE OF EXTRAMURAL COORDINATION AND SPECIAL PROJECTS													F J	3020
													F J	3021
3. Chlorance: Mechanisms of Pathogenesis (1108)--													F J	3022
8/31/83--$60,370--A. Moshell													F J	3023
													F J	3024
4. Accommodation and Tolerance in Humans and Guinea Pigs (1124)													F J	3025
8/31/83--$79,245--A. Moshell													F J	3026
													F J	3027
5. Photochemical Processes and Occupational Dermatoses (1119)--													F J	3028
8/31/83--$117,633--A. Moshell													F J	3029
													F J	3030
6. Coal Liquids: Skin Toxicity and Mutagenicity Studies (1149)													F J	3031
8/31/83--$84,500--A. Moshell													F J	3032
(0/0.5/0.5)(100/VCE-Xyy-888)													F J	3033
													F J	3034
7. Research and Demonstration Grants - Cutaneous Disorders	71	C					J	e	a				FayyyJ	3035
(Moshell, 443-4493)													FayyyJ	3036
(0/0.9/0.9)(100/VCE-Jyy-891)													FayyyJ	3037
													FayyyJ	3038

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
8. NIOSH Dermatology Program (Moshell, 443-6437) (1.3/0.015/0.050) (VCA-Jyy-886)	82	C					J	c	a				FFyyyJ	3040
													FFyyyJ	3041
													FFyyyJ	3042
.1 Provide medical backup to HETAB for HHE's requiring dermatologic expertise			3	6	9	12							FFyyyJ	3043
													FFyyyJ	3044
.2 Extramural Grants Program													FFyyyJ	3045
a. Assist prospective grantees			o	o	o	o							FFyyyJ	3046
b. Assist in providing research grant reviews for applications submitted to Occupational Safety and Health Study Section			o	o	o								FFyyyJ	3047
													FFyyyJ	3048
													FFyyyJ	3049
c. Assist in secondary review			o	o	o								FFyyyJ	3050
d. Act as T.A. for funded research grants													FFyyyJ	3051
.01 Submit renewal reports to GARB						7							FFyyyJ	3052
.3 Liaison with dermatologic organizations													FFyyyJ	3053
a. Attend AAD Task Force meetings			1		2								FFyyyJ	3054
b. Attend American Academy of Dermatology NIH Committee meeting			1		2								FFyyyJ	3055
													FFyyyJ	3056
.4 Training													FFyyyJ	3057
a. Give dermatology lecture at NIOSH Occupational Medicine Course			o										FFyyyJ	3058
													FFyyyJ	3059
b. Give dermatology lectures to NIOSH EIS officers			1	2	3								FFyyyJ	3060
c. Organize Occupational Dermatology Continuing Medical Education Course					o								FFyyyJ	3061
													FFyyyJ	3062
.5 Intramural NIOSH dermatologic research projects													FFyyyJ	3063
a. Peer review research projects			o	o	o	o							FFyyyJ	3064
b. Peer review RFP's			o	o	o	o							FFyyyJ	3065
c. Peer review contract proposals			o	o	o	o							FFyyyJ	3066
.6 Liaison with other government agencies													FFyyyJ	3067
a. Represent NIOSH at ad hoc Interagency Dermatology Working Group					o								FFyyyJ	3068
													FFyyyJ	3069
b. Collaborate with Dermatology Branch, NCI, on research relevant to NIOSH needs			o	o	o	o							FFyyyJ	3070
													FFyyyJ	3071
													FFyyyJ	3072
OFFICE OF THE DIRECTOR													K J	3074
													K J	3075
9. Pathomechanisms of Chemically Induced Pigmentation (714)--7/31/83--$70,000--L.Hatch													K J	3077
													K J	3078
													K J	3079

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CARDIOVASCULAR DISORDERS

Many exposures in the workplace have been shown to have an effect on the cardiovascular system of American workers. Many other exposures have not been evaluated with respect to their potential insults to the cardiovascular system. Most of the Institute's previous experience in cardiovascular research involved the heart and the major vessels of the cardiovascular system. This area needs to be continued and expanded. In addition, since the cardiovascular system of the lung is only a few micrometers from the airspaces in the lung, airborne contaminants can be expected to have an effect on the cardiopulmonary system. However, the effects of most workplace contaminants on the cardiopulmonary system have not been evaluated. NIOSH should support studies that evaluate the potential hazards involved.

It is particularly important to develop appropriate animal models for the testing and evaluation of workplace hazards. The results from the animal studies need to be coordinated with studies evaluating the potential hazards in the workplace, with epidemiologic studies, and with the groups developing control technology designed to eliminate or reduce exposure levels. The animal models will be helpful in elucidating disease mechanisms as well as confirming preliminary epidemiologic information. In fact, positive results in studies using animal models will permit epidemiologic studies to be initiated where potential cardiovascular problems may exist.

Division of Respiratory Disease Studies

1. Appropriate animal models of cardiovascular disease need to be developed for laboratory testing of occupational hazards.

2. Epidemiology related to stress and cardiovascular disease needs to be continued and expanded.

Division of Surveillance, Hazard Evaluations, and Field Studies

DSHEFS has three ongoing studies where the effects of occupational exposure on the cardiovascular system are specifically being examined. (Excess risk of dying from cardiovascular disease is, of course, evaluated in all mortality studies that are conducted.) One of these studies involves workers exposed to nitroglycerin, which has been associated with symptoms of cardiovascular disease and sudden cardiac death. This study, which is a retrospective cohort mortality design, along with a detailed industrial hygiene survey, is expected to be completed in FY 1982. The second study is a

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cross-sectional medical and industrial hygiene survey of workers exposed to carbon disfulfide, which is in its final stages of completion. The third study is a retrospective cohort mortality study of bridge and tunnel workers exposed to carbon monoxide. A study of motor vehicle examiners exposed to lower levels of carbon monoxide was completed in FY 1980.

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000		
*******CARDIOVASCULAR DISORDERS*******													L	3083
													L	3084
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE													A L	3085
													A L	3086
1. Cardiac Toxicity of Inhaled Amines (D. Lynch 684-8274) (VOO-cHk-339)(0.3/13.5/22.0)(100/VOO-Lhy-339)	81	83					L	c	a				AchyyL	3088
													AchyyL	3089
													AchyyL	3090
.1 Complete peer review (1Q81)													AchyyL	3091
.2 Develop hazard data sheet (H.D.S.)(1Q81)													AchyyL	3092
.3 Submit H.D.S. to Director, DBBS (1Q81)													AchyyL	3093
.4 Submit H.D.S. to all project staff (1Q81)													AchyyL	3094
.5 Submit progress report to Director, DBBS			o	o	o	o							AchyyL	3095
.6 Initiate evaluation criteria development for ECG (2Q81)													AchyyL	3096
.7 Complete evaluation criteria development for ECG (2Q81)													AchyyL	3097
.8 Initiate range finding studies													AchyyL	3098
a. Allylamine (2Q81)													AchyyL	3099
b. Triethylamine (4Q81)													AchyyL	3100
.9 Complete range finding studies													AchyyL	3101
a. Allylamine (3Q81)													AchyyL	3102
b. Triethylamine (4Q81)													AchyyL	3103
.10 Initiate methods development for mitochondria (2Q81)													AchyyL	3104
.11 Complete methods development for mitochondria (3Q81)													AchyyL	3105
.12 Initiate 90-day exposures													AchyyL	3106
a. Allylamine (4Q81)													AchyyL	3107
b. Triethylamine (4Q81)													AchyyL	3108
c. Amine #3					o								AchyyL	3109
d. Amine #4					o								AchyyL	3110
.13 Complete 90-day exposures													AchyyL	3111
a. Allylamine					o								AchyyL	3112
b. Triethylamine					o								AchyyL	3113
c. Amine #3 (1Q83)													AchyyL	3114
d. Amine #4 (1Q83)													AchyyL	3115
.14 Complete pathology													AchyyL	3116
a. Allylamine						o							AchyyL	3117
b. Triethylamine						o							AchyyL	3118
c. Amine #3 (3Q83)													AchyyL	3119
d. Amine #4 (3Q83)													AchyyL	3120
.15 Complete data analysis (4Q83)													AchyyL	3121
.16 Submit final report to Director, DBBS (4Q83)													AchyyL	3122
.17 Submit abstract to Director, NIOSH (4Q83)													AchyyL	3123
.18 Submit project records to Q.A. Unit, DBBS (4Q83)													AchyyL	3124
													AchyyL	3125

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
2. Cardiopulmonary Animal Modeling (W. Moorman, 684-8275) (0.1/1.8/4.8)(100/VOO-Lyy-310)	82	83					L	c	a				AcyyyL	3128
													AcyyyL	3129
													AcyyyL	3130
.1 Complete peer review			o										AcyyyL	3131
.2 Submit final protocol to Director, DBBS			o										AcyyyL	3132
.3 Submit progress report to Director, DBBS			o	o	o	o							AcyyyL	3133
.4 Initiate pulmonary comparisons				o									AcyyyL	3134
.5 Complete pulmonary comparisons					o								AcyyyL	3135
.6 Initiate ECG comparisons					o								AcyyyL	3136
.7 Complete ECG comparisons (1Q83)													AcyyyL	3137
.8 Submit final report to Director, DBBS (3Q83)													AcyyyL	3138
.9 Submit abstract to Director, NIOSH (3Q83)													AcyyyL	3139
.10 Submit project records to Q.A. Unit, DBBS (4Q83)													AcyyyL	3140
													AcyyyL	3141
DIVISION OF RESPIRATORY DISEASE STUDIES													C L	3143
													C L	3144
3. Pathology/Microanalysis Support for DRDS (Tucker J 304-599-7581) (VKC-uDp-116)(100/VCd-Lyd-116)	80	C					L	c	a				CdydgL	3146
													CdydgL	3147
													CdydgL	3148
and tissue processing to all DRDS projects where pathology support is required			o	o	o	o							CdydgL	3149
													CdydgL	3150
.2 Provide elemental analysis, mineral identifications, and electron microscopical and scanning electron microscopical studies to Divisional research													CdydgL	3151
													CdydgL	3152
													CdydgL	3153
investigations			o	o	o	o							CdydgL	3154
.3 Support Environmental Investigations Branch investigations by providing dust analysis and training EIB personnel in method of preparing samples for TEM, SEM, and XES													CdydgL	3155
													CdydgL	3156
													CdydgL	3157
analysis			o	o	o	o							CdydgL	3158
.4 Provide histopathological evaluation of tissue and interpretations of results			o	o	o	o							CdydgL	3159
													CdydgL	3160
.5 Processing, investigations and interpretations of biopsy and autopsy tissues and reporting to pathologists around													CdydgL	3161
													CdydgL	3162
the country			o	o	o	o							CdydgL	3163
													CdydgL	3164

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
DIVISION OF SURVEILLANCE, HAZARD EVALUATIONS AND FIELD STUDIES													D L	3167
													D L	3168
4. Mortality and Industrial Hygiene Study of Workers Exposed to Nitroglycerin (Gordon Reeve 513-684-2352) (0.5/40.0/55.0)(100/VMH-Lyy-557)	80	83					L	c	a				DbyyyL	3169
													DbyyyL	3170
													DbyyyL	3171
													DbyyyL	3172
A. Complete industrial hygiene surveys (4Q80).													DbyyyL	3173
B. Complete demographic and work history coding (3Q81).													DbyyyL	3174
C. Complete application of follow-up data to master file.			o										DbyyyL	3175
D. Complete preparation of master file.				o									DbyyyL	3176
E. Complete data analyses.					o								DbyyyL	3177
F. Determine necessity for using internal control group.						o							DbyyyL	3178
G. Complete report on life table analyses and submit abstract to Director, NIOSH and copy to DTS (1Q83).													DbyyyL	3179
													DbyyyL	3180
													DbyyyL	3181
5. Mortality and Industrial Hygiene Study of Workers Exposed to Carbon Monoxide (Frank Stern 513-684-2761) (2.0/30.0/85.0)(1.0/30.0/60.0)(100/VMH-Lyy-558)	80	84					L	c	a				DbyyyL	3184
													DbyyyL	3185
													DbyyyL	3186
													DbyyyL	3187
A. Complete peer review (3Q80).													DbyyyL	3188
B. Initiate coding of demographic information (2Q81).													DbyyyL	3189
C. Complete indepth industrial hygiene surveys.			o										DbyyyL	3190
D. Initiate vital status follow-up.				o									DbyyyL	3191
E. Complete industrial hygiene report.					o								DbyyyL	3192
F. Initiate acquisition of death certificates.						o							DbyyyL	3193
G. Complete 95% follow-up (4Q83).													DbyyyL	3194
H. Complete final report and submit abstract to Director, NIOSH and copy to DTS (4Q84).													DbyyyL	3195
													DbyyyL	3196
													DbyyyL	3197

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CANCER

The occurrence of occupational cancer has been known for over 200 years with the discovery of scrotal cancer in chimney sweeps. The issue of how much cancer can be attributed to occupation has been particularly controversial following a 1978 DHEW report on this subject. It should be noted that each year about 400,000 Americans die from cancer. If occupation were a factor in only 5 percent of these deaths, then 20,000 deaths each year from cancer may be related to the workplace, at least in part. The only way to resolve this controversy is through additional scientific research.

One of the problems in identifying occupationally related cancer is that cancers generally become manifest in humans from 20 to 40 years after the first exposure. In order to develop a comprehensive understanding of occupationally induced cancers, NIOSH has been conducting epidemiologic research. For example, the known occupational carcinogens that produce human cancers were discovered through epidemiologic studies. NIOSH can learn of possible cancer incidence in the workplace from individual workers, unions, industrial scientists, news media, government agencies, or scientific publications. With the more than 1,000 new chemicals being introduced into the U.S. workplace each year, occupational cancer-related problems may become even more complex in the future.

Over the last 5 years, approximately 50 to 70 percent of NIOSH's occupational cancer research was supported through an interagency agreement with NCI. Since its inception, NCI has provided NIOSH with more than $15 million to conduct more than 65 research projects dealing with a broad spectrum of topics related to cancer in the workplace. Approximately 20 projects are currently under way. NIOSH has worked closely with NCI under the interagency agreement and has participated in two collaborative workshops with NCI and EPA. Future collaboration between NCI and NIOSH will continue through joint project officers on interagency projects.

Division of Biomedical and Behavioral Sciences

The DBBS toxicology program in carcinogenesis extends beyond the bioassay screening of single chemicals by the NTP, to include assessment of the carcinogenic potential of complex mixtures, modifications of carcinogenesis by promoters, and the etiology of the carcinogenic process in various workplace environments.

Completed laboratory studies have demonstrated the carcinogenicity, through dermal exposure, of such roofing material components as asphalt fumes and pitch. Other studies have demonstrated and/or delineated the carcinogenicity of a wide variety of compounds from antimony compounds to toluidine isomers.

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For FY 1982, resources will be directed at:

1. Identification of carcinogenic agents in complex occupational environments such as newsprint ink, foundry particulates, and insulation products.

2. Investigation of the carcinogenic interaction between single chemical agents (e.g., dichloroethane) and (a) common prescription drugs used by workers, and (b) physical agents (e.g., ultraviolet lights).

3. Development of in vitro methods that can be used to screen industrial chemicals for cocarcinogenic/promotion potential.

4. Expansion of research on the role of pulmonary fibrosis in the development of lung cancer.

Division of Surveillance, Hazard Evaluations, and Field Studies

The approach in which cancer research is conducted in DSHEFS involves several levels of epidemiolgic study. Under DSHEFS surveillance activities, cancer risk among occupational groups is assessed using existing record systems such as tumor registries, State and Federal vital statistics, and the SSA. These studies usually generate hypotheses that require further study. In FY 1981 and continuing into FY 1982, maps for the United States will be systematically developed according to exposures or use of specific chemicals, as well as by occurrence of specific diseases, including cancer. An association between exposure and cancer within specific areas of the country will then be examined. The information generated from this surveillance effort will be assessed for further study by groups outside of NIOSH, as well as by researchers in DSHEFS.

Within the DSHEFS industrywide studies program, investigations are conducted to detemine whether or not specific occupational exposures or work within certain occupational groups in general are associated with an increased risk of developing cancer. The ultimate goal of the studies is to identify whethe. or not certain industrial chemicals are cancer-causing agents. The research involves the identification of worker populations that lend themselves to epidemiologic research. In addition, detailed industrial hygiene surveys are usually conducted to describe the actual levels of exposure experienced by the study population. Industrywide epidemiologic/industrial hygiene studies of this type have been instrumental in achieving lower exposures to certain chemicals in the workplace.

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In order to more effectively assess the potential for conducting large-scale epidemiologic studies, a better system of feasibility testing has been established. Assistance in epidemiology and industrial hygiene also has been offered to unions, industry, and other parties interested in occupational health problems.

During FY 1981, cancer epidemiologic studies of occupational groups have continued and many will continue into FY 1982 and 1983. Each study is at a different phase of completion and several have been completed this year [i.e., retrospective cohort mortality studies of workers in nuclear shipyards, the petrochemical industry, and dry-cleaning establishments (perchloroethylene exposures); proportionate mortality studies of workers in the petrochemical industry and boilermakers union; case-control studies of petrochemical workers; and industrial hygiene characterization studies of petroleum refineries, wood preservative operations, heat-sealing operations, carbon disulfide in viscose rayon operations, and perchloroethylene in dry-cleaning operations].

New methods of analysis continue to be developed and refined. Due to the recent Supreme Court decision regarding benzene, analytical designs are being developed to provide a better risk assessment in terms of dose/response.

Office of Extramural Coordination and Special Projects

As the Institute coordinator for the NCI-NIOSH interagency agreement relating to occupational cancer research, OECSP attempts to ensure that milestones are being met and that monies are being spent on schedule and as originally intended. OECSP identifies potential problem areas concerned with the interagency agreement for discussion or resolution with NCI, possibly resulting in a modification to the agreement. Preparation of programmatic and financial reports as well as research summaries, including annual and semiannual progress reports, to NCI is coordinated through OECSP. Solicitation of new project areas from NIOSH O/Ds to be considered by NCI for new funding under the interagency agreement is another function of the office. OECSP works closely with NIOSH research O/D directors, as well as with the Director of the Office of Program Planning and Evaluation, in this regard.

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
*******CANCER*******														M 3201
														M 3202
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE													A	M 3203
													A	M 3204
1. Foundry Pyrolysis Effluent-Carcinogenesis (W. Moorman 684-8275)	78	84					M	a	e					AcyyyM 3206
(VOO-cBD-326)(0.1/0.6/5.0)(0.1/0.6/4.5)(100/VOO-Myy-326)														AcyyyM 3207
														AcyyyM 3208
.1 Complete peer review (1Q78)														AcyyyM 3209
.2 Submit RFC to contract office (2Q78)														AcyyyM 3210
.3 Award contract (210-78-0033) (3Q78)														AcyyyM 3211
.4 Initiate experimental protocol (1Q79)														AcyyyM 3212
.5 Complete contract modification to include additional														AcyyyM 3213
binder (furan)(1Q79)														AcyyyM 3214
.6 Consult Information Office (1Q80)														AcyyyM 3215
.7 Complete analytical phases (2Q80)														AcyyyM 3216
.8 Initiate prechronic IT injections (2Q80)														AcyyyM 3217
.9 Complete prechronic IT injections (4Q80)														AcyyyM 3218
.10 Initiate chronic IT injections (4Q80)														AcyyyM 3219
.11 Complete chronic IT injections (4Q81)														AcyyyM 3220
.12 Review progress reports			o	o	o	o								AcyyyM 3221
.13 Complete chronic bioassay (1Q83)														AcyyyM 3222
.14 Complete pathology (3Q83)														AcyyyM 3223
.15 Receive draft final report (1Q84)														AcyyyM 3224
.16 Submit final report to Director, DBBS (2Q84)														AcyyyM 3225
.17 Submit abstract to Director, NIOSH (2Q84)														AcyyyM 3226
.18 Submit project records to Q.A. Unit, DBBS (4Q84)														AcyyyM 3227
														AcyyyM 3228
2. Etiology of Newsprint Workers Cancer (R. Niemeier, 684-8394)	82	85					M	a	e					AchyyM 3231
(0.1/155.0/160.0)(0.1/106.0/109.6)(.2/1.0/8.2)(100/VOO-Mhy-315)														AchyyM 3232
														AchyyM 3233
.1 Complete peer review			o											AchyyM 3234
.2 Submit RFC to OAMS				o										AchyyM 3235
.3 Obtain samples for testing						o								AchyyM 3236
.4 Award contract						o								AchyyM 3237
.5 Submit progress report to Director, DBBS			o	o	o	o								AchyyM 3238
.6 Perform site visit (2Q83)(4Q83)(2Q84)(4Q84)						o								AchyyM 3239
.7 Initiate animal studies (1Q83)														AchyyM 3240
.8 Review progress reports			o	o	o	o								AchyyM 3241
.9 Complete animal studies (4Q84)														AchyyM 3242
.10 Complete pathology evaluations (3Q85)														AchyyM 3243
.11 Review draft final report (4Q85)														AchyyM 3244
.12 Submit final report to Director, DBBS (4Q85)														AchyyM 3245
.13 Submit abstract to Director, NIOSH (4Q85)														AchyyM 3246
.14 Submit project records to Q.A. Unit, DBBS (4Q85)														AchyyM 3247
														AchyyM 3248

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
3. Diesel Exhaust/Coal Dust Animal Studies (T. Lewis, 684-8392) (VOO-cBi-325)(0.3/181.3/196.0)(100/VOO-Mmy-325)	78	83					M	b	c				AcmyyM	3251
													AcmyyM	3252
													AcmyyM	3253
.1 Complete peer review (1Q78)													AcmyyM	3254
.2 Prepare interagency agreement (3Q78)(4Q79)(4Q80)(4Q81)													AcmyyM	3255
.3 Begin facility setup (1Q79)													AcmyyM	3256
.4 Complete facility set up (4Q79)													AcmyyM	3257
.5 Initiate generation system set-up (4Q79)													AcmyyM	3258
.6 Characterize emissions (4Q79)													AcmyyM	3259
.7 Award interagency agreement (1Q79)(1Q80)(1Q81)			o										AcmyyM	3260
.8 Consult Information Office (1Q80)													AcmyyM	3261
.9 Initiate animal exposures (2Q80)													AcmyyM	3262
.10 Submit progress report to Director, DBBS			o	o	o	o							AcmyyM	3263
.11 Perform 6-month response studies (rats) (4Q80)(2Q81)(4Q81)				o									AcmyyM	3264
.12 Initiate exposure of monkeys (1Q81)													AcmyyM	3265
.13 Perform 6-month pulmonary tests (monkeys)(3Q81)(1Q83)			o		o								AcmyyM	3266
.14 Complete terminal sacrifice of rats					o								AcmyyM	3267
.15 Initiate infectivity/mutagenicity testing					o								AcmyyM	3268
.16 Complete infectivity/mutagenicity testing						o							AcmyyM	3269
.17 Complete terminal sacrifice of monkeys (1Q83)													AcmyyM	3270
.18 Receive pathology reports (2Q83)													AcmyyM	3271
.19 Review draft final report (3Q83)													AcmyyM	3272
.20 Submit final report to Director, DBBS (4Q83)													AcmyyM	3273
.21 Submit abstract to Director, NIOSH (4Q83)													AcmyyM	3274
.22 Submit project records to Q.A. Unit, DBBS (4Q83)													AcmyyM	3275
													AcmyyM	3276
4. Dichloroethane: Drug Interactions (K. Cheever 684-8497) (VOO-cBi-319)(0.1/150.0/154.4)(0.1/150.0/154.4)(0.1/50.0/55.0) (100/VOO-Mhy-319)	81	85					M	a	e				AchyyM	3279
													AchyyM	3280
													AchyyM	3281
													AchyyM	3282
.1 Develop RFC (4Q80)													AchyyM	3283
.2 Complete peer review (1Q81)													AchyyM	3284
.3 Submit RFC to Director, DBBS (1Q81)													AchyyM	3285
.4 Submit RFC to Contracting Office, OAMS (2Q81)													AchyyM	3286
.5 Award contract (4Q81)													AchyyM	3287
.6 Submit progress report to Director, DBBS			o	o	o	o							AchyyM	3288
.7 Make site visit to contractor (1Q83)(3Q83)(1Q84)			o		o								AchyyM	3289
.8 Initiate inhalation exposures				o									AchyyM	3290
.9 Complete inhalation exposures (4Q83)													AchyyM	3291
.10 Complete histopathologic evaluations (1Q84)													AchyyM	3292
.11 Review draft final report from contractor (3Q84)													AchyyM	3293
.12 Submit final report to Director, DBBS (1Q85)													AchyyM	3294
.13 Submit abstract to Director, NIOSH (1Q85)													AchyyM	3295
.14 Submit project records to Q.A. Unit, DBBS (1Q85)													AchyyM	3296
													AchyyM	3297

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
5. Carcinogenicity of Aromatic Amines-Azo Dyes (T. Lewis, 684-8392) (V00-cBt-332)(100/V00-Myy-332)	78	82					M	a	a				AcyyyM	3300
													AcyyyM	3301
													AcyyyM	3302
.1 Complete peer review (1Q78)													AcyyyM	3303
.2 Submit RFC to contract office (2Q78)													AcyyyM	3304
.3 Award contract (210-78-0032) (3Q78)													AcyyyM	3305
.4 Initiate subchronic study (3Q79)													AcyyyM	3306
.5 Complete subchronic study (4Q79)													AcyyyM	3307
.6 Consult Information Office (1Q80)													AcyyyM	3308
.7 Initiate chronic feeding studies and IT dosing (1Q80)													AcyyyM	3309
.8 Complete IT dosing (2Q80)													AcyyyM	3310
.9 Submit contractor's progress report to Director, DBBS			o	o	o	o							AcyyyM	3311
.10 Complete chronic feeding studies				o									AcyyyM	3312
.11 Complete sacrifice of rats and hamsters				o									AcyyyM	3313
.12 Complete pathology					o								AcyyyM	3314
.13 Review draft final report from contractor					o								AcyyyM	3315
.14 Submit final report to Director, DBBS						o							AcyyyM	3316
.15 Submit abstract to Director, NIOSH						o							AcyyyM	3317
.16 Submit manuscript for journal publication						o							AcyyyM	3318
.17 Submit project records to Q.A. Unit, DBBS						o							AcyyyM	3319
													AcyyyM	3320
6. Inhalation Toxicity of Organic Oxides (D. Lynch, 684-8274) (V00-cXh-330)(100/V00-Mhy-330)	78	82					M	c	a				AchyyM	3323
													AchyyM	3324
													AchyyM	3325
.1 Complete peer review (2Q78)													AchyyM	3326
.2 Standardize and calibrate new inhalation chambers (1Q79)													AchyyM	3327
.3 Initiate inhalation exposures to ethylene oxide and propylene oxide (3Q79)													AchyyM	3328
													AchyyM	3329
.4 Consult Information Office (1Q80)													AchyyM	3330
.5 Submit progress report to Director, DBBS			o	o	o	o							AchyyM	3331
.6 Perform 6-month testing (1Q80)(3Q80)(1Q81)(3Q81)													AchyyM	3332
.7 Complete inhalation exposures (3Q81)													AchyyM	3333
.8 Perform terminal sacrifice (3Q81)													AchyyM	3334
.9 Complete pathology reports				o									AchyyM	3335
.10 Complete data analysis					o								AchyyM	3336
.11 Submit final project report to Director, DBBS						o							AchyyM	3337
.12 Submit abstract to Director, NIOSH						o							AchyyM	3338
.13 Submit project records to Q.A. Unit, DBBS						o							AchyyM	3339
													AchyyM	3340

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
7. Co-Carcinogenicity of Foundry Particulates (R Niemeier 684-8394) (V00-cBy-320)(0.1/1.3/4.3)(0.1/0.9/4.3)(100/V00-Mny-320)	79	83					M	a	e				AcnyyM	3343
													AcnyyM	3344
													AcnyyM	3345
.1 Complete literature search and peer review (1Q79)													AcnyyM	3346
.2 Submit RFC to contract office (2Q79)													AcnyyM	3347
.3 Award contract (210-79-0036) (4Q79)													AcnyyM	3348
.4 Consult Information Office (1Q80)													AcnyyM	3349
.5 Initiate animal treatments (3Q80)													AcnyyM	3350
.6 Complete 15 weekly administrations of test material (4Q80)													AcnyyM	3351
.7 Submit contractor's progress report to Director, DBBS			o	o	o	o							AcnyyM	3352
.8 Complete site visits (1Q81)(2Q81)				o		o							AcnyyM	3353
.9 Perform terminal sacrifice				o									AcnyyM	3354
.10 Complete pathology evaluation						o							AcnyyM	3355
.11 Review draft Final Report (1Q83)													AcnyyM	3356
.12 Submit final report to Director, DBBS (2Q83)													AcnyyM	3357
.13 Submit abstract to Director, NIOSH (2Q83)													AcnyyM	3358
.14 Submit manuscript for publication (3Q83)													AcnyyM	3359
.15 Submit project records to Q.A. Unit, DBBS (3Q83)													AcnyyM	3360
													AcnyyM	3361

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
8. In Vitro Tests for Workplace Cocarcinogens (J. Bohrman 684-8358)	81	86					M	b	a				AchyyM	3364
(VOO-cBh-343)(1.5/155.0/200.0)(1.5/162.0/211.2)(1.5/20.0/70.0)													AchyyM	3365
(1.5/20.0/70.0)(100/VOO-Mhy-343)													AchyyM	3366
													AchyyM	3367
.1 Initiate literature review (1Q81)													AchyyM	3368
.2 Submit progress reports to Director, DBBS			o	o	o	o							AchyyM	3369
.3 Complete literature review (2Q81)													AchyyM	3370
.4 Complete development of RFC (3Q81)													AchyyM	3371
.5 Complete peer review (4Q81)													AchyyM	3372
.6 Submit RFC to Director, DBBS (4Q81)													AchyyM	3373
.7 Submit RFC to OAMS (4Q81)													AchyyM	3374
.8 Complete new tissue culture laboratory set-up				o									AchyyM	3375
.9 Initiate in-house studies on methods development				o									AchyyM	3376
.10 Hazard Data Sheets (H.D.S.)													AchyyM	3377
a. Develop H.D.S.				o									AchyyM	3378
b. Submit H.D.S. to Director, DBBS				o									AchyyM	3379
c. Submit H.D.S. to all project staff				o									AchyyM	3380
.11 Award Contract #1 on Comparative Screening Methods				o									AchyyM	3381
.12 Complete in-house methods development studies (2Q84)													AchyyM	3382
.13 Initiate testing of field samples in-house (2Q84)													AchyyM	3383
.14 Review draft final report (2Q84)													AchyyM	3384
.15 Review final report (Contract #1)(3Q84)													AchyyM	3385
.16 Submit final contract report to Director, DBBS (3Q84)													AchyyM	3386
.17 Submit abstract final report to Director, NIOSH (3Q84)													AchyyM	3387
.18 Award Contract #2 (4Q84)													AchyyM	3388
.19 Review draft final report (2Q86)													AchyyM	3389
.20 Review final report (contract #2)(2Q86)													AchyyM	3390
.21 Complete in-house screening of field samples (4Q85)													AchyyM	3391
.22 Submit final report to Director, DBBS (3Q86)													AchyyM	3392
.23 Submit abstract to Director, NIOSH (3Q86)													AchyyM	3393
.24 Submit project records to Q.A. Unit, DBBS (4Q86)													AchyyM	3394
													AchyyM	3395

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
9. Fibrogenicity & Pulmonary Carcinogenesis (T. Lewis 684-8392) (VOO-cBD-324)(100/VOO-Mny-324)	79	82					M	a	e				AcnyyM	3398
													AcnyyM	3399
													AcnyyM	3400
.1 Conduct peer review (1Q79)													AcnyyM	3401
.2 Submit RFC to contract office (1Q79)													AcnyyM	3402
.3 Award contract (210-79-0039) (4Q79)													AcnyyM	3403
.4 Consult Information Office (1Q80)													AcnyyM	3404
.5 Obtain and characterize particulates to be supplied to contractor (1Q80)													AcnyyM	3405
													AcnyyM	3406
.6 Initiate experimental work (1Q80)													AcnyyM	3407
.7 Submit contractor's progress report to Director, DBBS			o	o	o								AcnyyM	3408
.8 Complete experimental work			o										AcnyyM	3409
.9 Complete histopathology			o										AcnyyM	3410
.10 Review draft final report				o									AcnyyM	3411
.11 Submit final report to Director, DBBS					o								AcnyyM	3412
.12 Submit abstract to Director, NIOSH					o								AcnyyM	3413
.13 Submit project records to Q.A. Unit, DBBS					o								AcnyyM	3414
													AcnyyM	3415
10. Fluoride & Carcinogenicity of Mineral Fibers (D. Groth 684-8361) (0.4/12.0/30.0)(0.4/5.0/23.0)(100/VOT/Mkg/376)	82	84					M	c	e				AdkgyM	3418
													AdkgyM	3419
													AdkgyM	3420
.1 Submit peer review notice to Information Office			o										AdkgyM	3421
.2 Complete peer review			o										AdkgyM	3422
.3 Submit project protocol to OD, DBBS				o									AdkgyM	3423
.4 Order animals, chemicals, and diet.				o									AdkgyM	3424
.5 Innoculate animals					o								AdkgyM	3425
.6 Submit progress report to OD, DBBS			o	o	o	o							AdkgyM	3426
.7 Perform 12-month sacrifice (2Q83)													AdkgyM	3427
.8 Submit histopathology report to OD, DBBS (4Q83)													AdkgyM	3428
.9 Complete sacrifices (2Q84)													AdkgyM	3429
.10 Submit histopathology report to OD, DBBS (4Q84)													AdkgyM	3430
.11 Submit final project report to OD, DBBS (4Q84)													AdkgyM	3431
.12 Submit abstract of final report to OD, NIOSH (4Q84)													AdkgyM	3432
.13 Submit project records to Q. A. Unit, DBBS (4Q84)													AdkgyM	3433
													AdkgyM	3434

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
11. Carcinogenicity of Dimethylformamide (W. Wagner, 684-8433)	80	85					M	b	e				AdhyyM	3437
(VOT-cBh-373)(0.1/1.0/5.0)(0.1/1.0/6.0)(0.1/1.0/7)													AdhyyM	3438
(100/VOT-Mhy-373)													AdhyyM	3439
													AdhyyM	3440
.1 Consult Information Office (1Q80)													AdhyyM	3441
.2 Conduct project peer review (2Q80)													AdhyyM	3442
.3 Submit RFC to Director, DBBS (2Q80)													AdhyyM	3443
.4 Submit RFC to Contracting Office (2Q80)													AdhyyM	3444
.5 Award contract (4Q81)													AdhyyM	3445
.6 Submit progress report to Director, DBBS			o	o	o	o							AdhyyM	3446
.7 Perform maximum tolerated dose (MTD) study				o									AdhyyM	3447
.8 Monitor contract-site visit				o									AdhyyM	3448
.9 Initiate chronic inhalation exposure study				o									AdhyyM	3449
.10 Perform 6-month serial sacrifice and serum enzyme						o							AdhyyM	3450
evaluations													AdhyyM	3451
.11 Perform 12-month serial sacrifice and serum enzyme													AdhyyM	3452
evaluations (2Q83)													AdhyyM	3453
.12 Perform 18-month serial sacrifice and serum enzyme													AdhyyM	3454
evaluations (4Q83)													AdhyyM	3455
.13 Complete chronic inhalation exposures (2Q84)													AdhyyM	3456
.14 Perform terminal sacrifice and serum enzyme evaluations,													AdhyyM	3457
30-month (4Q84)													AdhyyM	3458
.15 Complete histologic evaluations (2Q85)													AdhyyM	3459
.16 Receive draft of contractor's final report (3Q85)													AdhyyM	3460
.17 Submit final report to Director, DBBS (4Q85)													AdhyyM	3461
.18 Submit abstract to Director, NIOSH (4Q85)													AdhyyM	3462
.19 Submit project records to Q. A. Unit, DBBS (4Q85)													AdhyyM	3463
													AdhyyM	3464
12. Metabolism of Azo Dyes to Aromatic Amines (L. Lowry, 684-8338)	80	82					M	a	e				AdyyyM	3467
(VOT-cBr-372)(100/VOT-Myy-372)													AdyyyM	3468
													AdyyyM	3469
.1 Consult Information Office (1Q80)													AdyyyM	3470
.2 Submit draft IA to Director, DBBS (2Q80)													AdyyyM	3471
.3 Submit IA to NCTR (2Q80)													AdyyyM	3472
.4 Award IA (4Q80)													AdyyyM	3473
.5 Submit progress report to Director, DBBS			o	o	o	o							AdyyyM	3474
.6 Conduct site visit (2Q81)(4Q81)				o									AdyyyM	3475
.7 Initiate methods development (1Q81)													AdyyyM	3476
.8 Complete methods development (1Q81)													AdyyyM	3477
.9 Initiate testing of animals (2Q81)													AdyyyM	3478
.10 Complete metabolic and chemical disposition studies			o										AdyyyM	3479
.11 Receive draft of final report				o									AdyyyM	3480
.12 Submit IA final report to Director, DBBS													AdyyyM	3481
.13 Submit abstract to Director, NIOSH						o							AdyyyM	3482
.14 Submit project records to Q.A. Unit, DBBS						o							AdyyyM	3483
													AdyyyM	3484

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
DIVISION OF RESPIRATORY DISEASE STUDIES													C M	3486
													C M	3487
13. Retrospective Mortality Study of Synthetic Fuel Workers (Ames R 304-599-7476)(1.0/50.0/80.0)(0.8/21.7/49.7) (100/VCa-Mih-187)	82	84					M	c	b				CaihyM	3489
													CaihyM	3490
													CaihyM	3491
													CaihyM	3492
.1 Develop study plan (FY81)													CaihyM	3493
.2 Conduct literature review (FY81)													CaihyM	3494
.3 Obtain employee records (Union Carbide)				o									CaihyM	3495
.4 Complete in-house follow-up of UC					o								CaihyM	3496
.5 Initiate Equifax follow-up of UC					o								CaihyM	3497
.6 Obtain employee records from 5 National Energy Tech Centers					o								CaihyM	3498
													CaihyM	3499
.7 Complete in-house follow-up of 5 National Energy Tech Centers													CaihyM	3500
						o							CaihyM	3501
.8 Initiate Equifax follow-up of 5 National Energy Tech Centers (FY83)													CaihyM	3502
													CaihyM	3503
.9 Complete Equifax follow-up of Union Carbide (FY83)													CaihyM	3504
.10 Obtain worker records at BOM coal liquefaction facilities (FY83)													CaihyM	3505
													CaihyM	3506
.11 Complete in-house follow-up of BOM facilities (FY83)													CaihyM	3507
.12 Initiate Equifax follow-up of BOM facilities (FY83)													CaihyM	3508
.13 Complete Equifax follow-up of 5 National Energy Tech Centers (FY83)													CaihyM	3509
													CaihyM	3510
.14 Obtain employee records, town gas plants (FY83)													CaihyM	3511
.15 Complete in-house follow-up of town gas (FY83)													CaihyM	3512
.16 Initiate Equifax follow-up of town gas (FY84)													CaihyM	3513
.17 Complete Equifax follow-up of BOM facilities (FY84)													CaihyM	3514
.18 Prepare report, Union Carbide phase (FY84)													CaihyM	3515
.19 Prepare report, 5 National Energy Tech Centers (FY84)													CaihyM	3516
.20 Prepare, BOM facilities (FY84)													CaihyM	3517
.21 Complete Equifax follow-up of town gas (FY84)													CaihyM	3518
.22 Prepare report, town gas (FY84)													CaihyM	3519
.23 Prepare summary final report and submit abstract to Director, NIOSH, with copy of report and abstract to DTS (FY84)													CaihyM	3520
													CaihyM	3521
													CaihyM	3522
													CaihyM	3523

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000		
14. IH/Mortality Study of Crushed Stone Workers (Costello J 304-599-7476) (VKL-bpB-186) (0.3/11.0/20.0) (100/VCa-Mkg-186)	79	83					M	g	a				CakgyM	3526
													CakgyM	3527
													CakgyM	3528
													CakgyM	3529
.1 Cohort completely defined and data collected from all quarries (n=approx 6000) (2Q81)													CakgyM	3530
													CakgyM	3531
.2 All data entered and master file (for follow-up) completed (3Q81)													CakgyM	3532
													CakgyM	3533
.3 Follow-back with postmasters, SSA, and IRS to determine vital status				o									CakgyM	3534
													CakgyM	3535
.4 Update master file from follow-back				o									CakgyM	3536
.5 Order and receive death certificates					o								CakgyM	3537
.6 Death certificate coding						o							CakgyM	3538
.7 Update master file (computer processing) for analysis (1Q83)													CakgyM	3539
.8 Analysis and report writing (2Q&3Q83)													CakgyM	3540
.9 Complete final report and submit abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q83)													CakgyM	3541
													CakgyM	3542
													CakgyM	3543
15. Morb/IH Study of Fibrous Attapulgite Workers (Gamble J 304-599-7476) (VKL-bDg-185)(100/VCa-Mgk-185)	77	82					M	c	d				CagknM	3546
													CagknM	3547
													CagknM	3548
													CagknM	3549
.1 Complete negotiations on data collection (2Q81)													CagknM	3550
.2 Complete walk-thru surveys of 2 plants (3Q81)													CagknM	3551
.3 Complete IH surveys (4Q81)			o										CagknM	3552
.4 Complete film reading trials			o										CagknM	3553
.5 Receive taped data from Englehard			o										CagknM	3554
.6 Receive hard copy data from Pennsylvania Glass Sand Corp.			o										CagknM	3555
.7 Edit Englehard data for analysis			o										CagknM	3556
.8 Code PGS data and put on tape			o										CagknM	3557
.9 Edit PGS data for analysis			o										CagknM	3558
.10 Code and put IH data on computer tape			o	o	o	o							CagknM	3559
.11 Analyze cross-sectional and prospective data			o		o								CagknM	3560
.12 Estimate cumulative exposure						o							CagknM	3561
.13 Complete report and submit abstract to Director, NIOSH, with copy of report and abstract to DTS													CagknM	3562
													CagknM	3563

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
16. Registry of Workers-Emerging Energy Technologies-EPA (Costello J 304-599-7476) (VKL-aiB-189)(100/VCa-Mih-189)	81	82					M	b	c				CaihyM	3566
													CaihyM	3567
													CaihyM	3568
.1 Develop preliminary protocol for establishment of a synthetic fuels workers registry (1Q81)													CaihyM	3569
													CaihyM	3570
.2 Contact appropriate agencies (DOE, API, EPRI, etc) to discuss the registry project and evaluate their interest in participating (1Q81)													CaihyM	3571
													CaihyM	3572
													CaihyM	3573
.3 Meet with representatives of API to discuss their plans for registry establishment and operation (2Q81)													CaihyM	3574
													CaihyM	3575
.4 Attend meeting planned by API to include those with an interest in pilot oil shale registry (individual energy companies, NIOSH, MSHA, OSHA, state health departments) (4Q81)													CaihyM	3576
													CaihyM	3577
													CaihyM	3578
													CaihyM	3579
.5 Obtain seat on API and Tri-state consortium advisory committee			o										CaihyM	3580
													CaihyM	3581
.6 Confer with IOM officials regarding cooperative or contractual arrangement to examine ex-shale oil workers			o										CaihyM	3582
a. Submit RFC to CDC/OAMS			o										CaihyM	3583
													CaihyM	3584
.7 If feasible, award contract in one of several areas					o								CaihyM	3585
.8 Monitor contract work - in cooperation with DOE						o							CaihyM	3586
.9 Provide advice to API and state health departments concerned with shale oil registry in US					o								CaihyM	3587
													CaihyM	3588
.10 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS						o							CaihyM	3589
													CaihyM	3590
													CaihyM	3591
17. Fibrous Minerals and Metals on Interferon System (Hahon N 304-599-7517)(VKC-cCB-129)(1.9/27.0/84.0) (100/VCd-Mgm-129)	81	83					M	c	d				CdgmyM	3594
													CdgmyM	3595
													CdgmyM	3596
													CdgmyM	3597
METALS													CdgmyM	3598
.1 Complete determination of chromium and manganese on cell viability, cell growth			o										CdgmyM	3599
													CdgmyM	3600
.2 Complete assessment of metal effects on viral induction of interferon				o									CdgmyM	3601
													CdgmyM	3602
.3 Complete study of metals on interferon system (cell-mediated antiviral resistance, virus growth)						o							CdgmyM	3603
													CdgmyM	3604
MINERAL-METAL COMBINATIONS													CdgmyM	3605
.1 Complete determination of garnierite (nickel-asbestos) on cell integrity (1Q83)													CdgmyM	3606
													CdgmyM	3607
.2 Complete study of garnierite effects on interferon system (induction, cell-resistance, virus growth) (3Q83)													CdgmyM	3608
													CdgmyM	3609
													CdgmyM	3610
.3 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q83)													CdgmyM	3611
													CdgmyM	3612
													CdgmyM	3613

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
18. Diesel Exhaust/Coal Dust Animal Exposure Studies (Green F 304-599-7581) (VKC-cpD-117)(100/VCd-Mmi-117)	80	82					M	g	b				CdmiyM	3616
													CdmiyM	3617
													CdmiyM	3618
.1 Submit IA to DOE for dust analysis by Brookhaven National Labs			o										CdmiyM	3619
.2 Complete report on 12-month exposure			o										CdmiyM	3620
.3 Complete 24-month animal sampling				o									CdmiyM	3621
.4 Submit final report and abstract to Director, NIOSH with copy of report and abstract to DTS						o							CdmiyM	3622
													CdmiyM	3623
													CdmiyM	3624
													CdmiyM	3625
19. Early Indicators of Risk for Energy Technologies-EPA (Resnick H 304-599-7593)(VKC-ciB-120)(2.5/75.0/150.0) (2.5/50.0/140.0)(100/VCd-Mid-120)	81	84					M	c	c				CdiduM	3628
													CdiduM	3629
													CdiduM	3630
													CdiduM	3631
.1 Complete peer review of protocol			o										CdiduM	3632
.2 Complete SFRG/HSRB/OMB approval			o										CdiduM	3633
.3 Complete review of alternate bioassays available					o								CdiduM	3634
.4 Complete coordinating bioassays of samples provided from field studies				o									CdiduM	3635
													CdiduM	3636
.5 Complete evaluation of plants studied; redirection if necessary						o							CdiduM	3637
													CdiduM	3638
.6 Continuing out-year milestones contingent upon progress realized during FY82 efforts													CdiduM	3639
													CdiduM	3640
													CdiduM	3641
DIVISION OF SURVEILLANCE, HAZARD EVALUATIONS AND FIELD STUDIES													D M	3643
													D M	3644
20. Lung Cancer Screening of Workers at High Risk (914)-- 4/30/84--$168,901--J. Melius													D M	3645
													D M	3646
													D M	3647
21. Multiple Myeloma and Brain Tumors in Physicians (920) 7/31/83--$122,508--E. Leffingwell													D M	3648
													D M	3649
													D M	3650
22. Worker Notification Pilot Program (Paul Schulte 513-684-2732) (100/VMC-Myy-687)	81	82					M	b	a				DayyyM	3652
													DayyyM	3653
													DayyyM	3654
A. Award contracts for medical services (4Q81).													DayyyM	3655
B. Complete data collection.				o									DayyyM	3656
C. Complete final report and submit abstract to Director, NIOSH and copy to DTS.						o							DayyyM	3657
													DayyyM	3658
D. Devise follow-up plan.						o							DayyyM	3659
													DayyyM	3660

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
23. Investigation of Brain Tumors Among Workers at the Dow Chemical Company, Texas Division (Gordon Reeve 513-684-2352) (100/VMH-Myy-580)	82	82					M	c	e				DbyyyM	3663
													DbyyyM	3664
													DbyyyM	3665
													DbyyyM	3666
A. Complete brain tumor case control study.			o										DbyyyM	3667
B. Collect death certificates for second phase of study.				o									DbyyyM	3668
C. Complete final report on case control study and submit abstract to Director, NIOSH and copy to DTS.					o								DbyyyM	3669
													DbyyyM	3670
D. Complete sample based cohort mortality analysis and make recommendations for future study.						o							DbyyyM	3671
													DbyyyM	3672
													DbyyyM	3673
24. Beryllium Retrospective Cohort Investigation (Andrea Okun 513-684-2145) (1.0/60.0/90.0)(100/VMH-Myy-583)	82	83					M	c	a				DbyyyM	3676
													DbyyyM	3677
													DbyyyM	3678
													DbyyyM	3679
A. Initiate preparation of protocol.			o										DbyyyM	3680
B. Submit protocol to peer review panel.				o									DbyyyM	3681
C. Establish future milestones dependent on peer review comments.					o								DbyyyM	3682
													DbyyyM	3683
													DbyyyM	3684
25. Case Control Study of Soft Tissue Sarcoma (Pat Honchar 513-684-3593) (1.0/40.0/70.0)(100/VMH-Mee-582)	82	83					M	b	a				DbeeeM	3687
													DbeeeM	3688
													DbeeeM	3689
													DbeeeM	3690
A. Complete RFC and OMB package and submit to OAMS.				o									DbeeeM	3691
B. Award contract (210-82-).						o							DbeeeM	3692
C. Complete final report and submit abstract to Director, NIOSH and copy to DTS (4Q83).													DbeeeM	3693
													DbeeeM	3694
													DbeeeM	3695
26. Mortality and Industrial Hygiene Study of Uranium Enrichment Plant (Dave Brown 513-684-3593) (VMH-Mai-546)	81	82					M	c	a				DbaiaM	3698
													DbaiaM	3699
													DbaiaM	3700
													DbaiaM	3701
A. Complete acquisition of 70% of death certificates (2Q81).													DbaiaM	3702
B. Complete vital status follow-up.			o										DbaiaM	3703
C. Complete industrial hygiene survey.				o									DbaiaM	3704
D. Initiate analyses of mortality data.					o								DbaiaM	3705
E. Complete final report and submit abstract to Director, NIOSH and copy to DTS.						o							DbaiaM	3706
													DbaiaM	3707
													DbaiaM	3708

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
27. Uranium Miner and Miller Study (Rick Waxweiler 513-684-2761) (100/VMH-Mai-560)	79	82					M	c	d				DbaiaM	3711
													DbaiaM	3712
													DbaiaM	3713
A. Construct cohort of uranium millers (2Q79).													DbaiaM	3714
B. Eliminate those millers who worked in uranium mines (2Q80).													DbaiaM	3715
C. Complete 90% follow-up of uranium millers (4Q81).													DbaiaM	3716
D. Complete analyses of millers cohort.			o										DbaiaM	3717
E. Complete Phase 1 analysis of miners cohort.			o										DbaiaM	3718
F. Complete final report on millers and submit abstract to Director, NIOSH and copy to DTS.				o									DbaiaM	3719
													DbaiaM	3720
G. Complete Phase 1 report on miners and submit abstract to Director, NIOSH and copy to DTS.				o									DbaiaM	3721
													DbaiaM	3722
H. Complete Phase 2 report on miners and submit abstract to Director, NIOSH and copy to DTS.					o								DbaiaM	3723
													DbaiaM	3724
													DbaiaM	3725
28. Mortality and Industrial Hygiene Study of Workers Exposed to Tetra Ethyl Lead (Marie Haring 513-684-2761) (1.0/9.0/36.0)(0.5/10.0/30.0)(100/VMH-Myy-548)	80	84					M	c	a				DbyyyM	3728
													DbyyyM	3729
													DbyyyM	3730
													DbyyyM	3731
A. Initiate vital status follow-up and death certificate acquisition (4Q80).													DbyyyM	3732
													DbyyyM	3733
B. Initiate vital status follow-up (2Q81).													DbyyyM	3734
C. Complete 90% vital status ascertainment.			o										DbyyyM	3735
D. Complete acquisition of 70% of death certificates.				o									DbyyyM	3736
E. Complete 95% vital status ascertainment.					o								DbyyyM	3737
F. Complete acquisition of 95% of death certificates.						o							DbyyyM	3738
G. Complete draft final report (4Q83).													DbyyyM	3739
H. Complete final report and submit abstract to Director, NIOSH and copy to DTS (1Q84).													DbyyyM	3740
													DbyyyM	3741
													DbyyyM	3742

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000		
29. Mortality Study of Chemical Plants in Kanawha Valley, West Virginia (NCI)(Terry Leet 513-684-2761) (0.8/50.0/70.0)(VMH-Mih-605)	80	83					M	c	e				DbihyM	3745
													DbihyM	3746
													DbihyM	3747
													DbihyM	3748
A. Complete initial study protocol, initiate coding of demographic and work history data (1Q80).													DbihyM	3749
													DbihyM	3750
B. Complete coding of demographic and work history data (4Q81).													DbihyM	3751
													DbihyM	3752
C. Initiate SSA follow-up on second half of master file.			o										DbihyM	3753
D. Complete 90% of death certificate acquisition on first half of master file.				o									DbihyM	3754
													DbihyM	3755
E. Initiate death certificate acquisition on second half of master file.					o								DbihyM	3756
													DbihyM	3757
F. Complete vital status follow-up.						o							DbihyM	3758
G. Complete final report and submit abstract to Director, NIOSH and copy to DTS (3Q83).													DbihyM	3759
													DbihyM	3760
													DbihyM	3761
30. Mortality and Industrial Hygiene Study of New Agents-III (Jim Oser 513-684-3255) (100/VMH-MNe-602)	78	82					M	b	e				DbNeeM	3764
													DbNeeM	3765
													DbNeeM	3766
													DbNeeM	3767
A. Award contract (4Q78).													DbNeeM	3768
B. Initiate surveys for wood preservatives (2Q79).													DbNeeM	3769
C. Initiate surveys for paraquat (2Q80).													DbNeeM	3770
D. Complete final report on wood preservatives (4Q81).													DbNeeM	3771
E. Complete final report on paraquat and submit abstract to Director, NIOSH and copy to DTS.					o								DbNeeM	3772
													DbNeeM	3773
F. Complete final report on vanadium compounds and submit abstract to Director, NIOSH and copy to DTS.						o							DbNeeM	3774
													DbNeeM	3775
													DbNeeM	3776
31. Mortality and Industrial Hygiene Study of Formaldehyde (Larry Elliott 513-684-3255) (0.2/20.0/25.0)(100/VMH-Myy-576)	81	83					M	c	a				DbyyyM	3779
													DbyyyM	3780
													DbyyyM	3781
													DbyyyM	3782
A. Complete study protocol (3Q81).													DbyyyM	3783
B. Complete microfilming.			o										DbyyyM	3784
C. Complete coding of death certificates and create master file.				o									DbyyyM	3785
													DbyyyM	3786
D. Complete indepth industrial hygiene surveys.					o								DbyyyM	3787
E. Complete industrial hygiene report.						o							DbyyyM	3788
F. Complete final report and submit abstract to Director, NIOSH and copy to DTS (2Q83).													DbyyyM	3789
													DbyyyM	3790
													DbyyyM	3791

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	RECH	RUND	RESOURCES PY	NPF $1000	TF $1000		
32. Mortality and Industrial Hygiene Study of Workers Exposed to Toluene (NCI) (Frank Stern 513-684-2761) (0.5/25.0/40.0)(100/VMH-Mhh-604)	79	83					M	c	e				DbhhhM	3794
													DbhhhM	3795
													DbhhhM	3796
													DbhhhM	3797
A. Initiate walk-through surveys (1Q79).													DbhhhM	3798
B. Complete selection of plants for study (1Q80).													DbhhhM	3799
C. Complete industrial hygiene report (2Q81).													DbhhhM	3800
D. Initiate coding of death certificates.				o									DbhhhM	3801
E. Complete 70% vital status follow-up.					o								DbhhhM	3802
F. Complete acquisition of 70% of death certificates.						o							DbhhhM	3803
G. Complete final report and submit abstract to Director, NIOSH and copy to DTS (3Q83).													DbhhhM	3804
													DbhhhM	3805
													DbhhhM	3806
33. Mortality and Industrial Hygiene Study of Leather Industry Workers (NCI) (Frank Stern 513-684-2761) (1.0/40.0/65.0)(100/VMH-Myy-603)	79	83					M	c	e				DbyyyM	3809
													DbyyyM	3810
													DbyyyM	3811
													DbyyyM	3812
A. Complete peer review (3Q79).													DbyyyM	3813
B. Select plants for study (2Q80).													DbyyyM	3814
C. Complete industrial hygiene reports (3Q81).													DbyyyM	3815
D. Initiate coding of death certificates.				o									DbyyyM	3816
E. Complete 70% vital status follow-up.					o								DbyyyM	3817
F. Complete acquisitin of 70% of death certificates.						o							DbyyyM	3818
G. Complete final report and submit abstract to Director, NIOSH and copy to DTS (4Q83).													DbyyyM	3819
													DbyyyM	3820
													DbyyyM	3821
34. Industrial Hygiene Characterization of the Tanning Industry (Ken Wallingford 513-684-3255) (0.4/10.0/20.0)(100/VMH-Myy-562)	81	83					M	c	a				DbyyyM	3824
													DbyyyM	3825
													DbyyyM	3826
													DbyyyM	3827
A. Complete detailed industrial hygiene assessments (4Q81).													DbyyyM	3828
B. Complete final report on vegetable tanning and submit abstract to Director, NIOSH and copy to DTS.				o									DbyyyM	3829
													DbyyyM	3830
C. Complete walk-through surveys for chrome tanning.					o								DbyyyM	3831
D. Select plants for indepth surveys of chrome tanning.						o							DbyyyM	3832
E. Complete final report on chrome tanning and submit abstract to Director, NIOSH and copy to DTS (2Q83).													DbyyyM	3833
													DbyyyM	3834
													DbyyyM	3835

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
35. Mortality and Industrial Hygiene Study of Automotive Wood Die and Model Makers (Robert Roscoe 513-684-2761) (1.0/40.0/70.0)(100/VMH-Hyy-568)	81	83					M	c	a				DbyyyM	3838
													DbyyyM	3839
													DbyyyM	3840
													DbyyyM	3841
A. Complete computer indexing (1Q81).													DbyyyM	3842
B. Complete industrial hygiene report.			o										DbyyyM	3843
C. Complete SSA vital status follow-up.				o									DbyyyM	3844
D. Complete acquisition of 70% of death certificates.					o								DbyyyM	3845
E. Complete acquisition of 93% of death certificates.						o							DbyyyM	3846
F. Complete final report and submit abstract to Director, NIOSH and copy to DTS (3Q83).													DbyyyM	3847
													DbyyyM	3848
													DbyyyM	3849
36. Industrial Hygiene Characterization of Petroleum Turnarounds (Clint Cox 513-684-3255) (0.2/10.0/15.0)(100/VMH-Mii-555)	80	83					M	c	a				DbiiiM	3852
													DbiiiM	3853
													DbiiiM	3854
													DbiiiM	3855
A. Complete study protocol (3Q80).													DbiiiM	3856
B. Select plants for surveys (3Q81).													DbiiiM	3857
C. Initiate industrial hygiene surveys.			o										DbiiiM	3858
D. Complete first set of surveys.				o									DbiiiM	3859
E. Complete reports on first surveys.					o								DbiiiM	3860
F. Complete final surveys.						o							DbiiiM	3861
G. Complete final report and submit abstract to Director, NIOSH and copy to DTS (4Q83).													DbiiiM	3862
													DbiiiM	3863
													DbiiiM	3864
37. Mortality and Industrial Hygiene Study of Workers Exposed to Sulfuric Acid (Jay Beaumont 513-684-2145) (0.2/2.0/8.0)(100/VMH-Hyy-573)	76	83					M	b	a				DbyyyM	3867
													DbyyyM	3868
													DbyyyM	3869
													DbyyyM	3870
A. Complete protocol (4Q78)													DbyyyM	3871
B. Complete walk-through surveys (4Q79).													DbyyyM	3872
C. Choose plants for study (1Q80).													DbyyyM	3873
D. Complete microfilming of records (3Q81).													DbyyyM	3874
E. Complete SSA vital status follow-up.			o										DbyyyM	3875
F. Complete acquisition of 70% of death certificates.				o									DbyyyM	3876
G. Complete 95% vital status follow-up.					o								DbyyyM	3877
H. Initiate data analyses.						o							DbyyyM	3878
I. Complete final report and submit abstract to Director, NIOSH and copy to DTS (2Q83).													DbyyyM	3679
													DbyyyM	3880
													DbyyyM	3881

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
38. Registry of Dioxin Workers) (Pat Honchar 513-684-3593) (3.0/40.0/126.0)(100/VMH-Mee-550)	80	83					M	c	a				DbeeeM	3884
													DbeeeM	3885
													DbeeeM	3886
A. Mortality													DbeeeM	3887
1. Initiate data collection (3Q80).													DbeeeM	3888
2. Initiate work history coding (3Q81).													DbeeeM	3889
3. Complete final aspects of protocol.			o										DbeeeM	3890
4. Complete status report.				o									DbeeeM	3891
5. Complete final reports on site visits.						o							DbeeeM	3892
6. Complete final report and submit abstract to Director, NIOSH and copy to DTS (4Q83).													DbeeeM	3893
													DbeeeM	3894
B. Chloracne Subgroup													DbeeeM	3895
1. Initiate dermatologic review (3Q81).													DbeeeM	3896
2. Establish case definition.				o									DbeeeM	3897
3. Complete review of cases.					o								DbeeeM	3898
4. Complete coding of cases.						o							DbeeeM	3899
5. Complete analysis (1Q83).													DbeeeM	3900
C. Reproductive Study													DbeeeM	3901
1. Initiate feasibility assessment.			o										DbeeeM	3902
2. Complete assessment and make recommendations for future study.				o									DbeeeM	3903
													DbeeeM	3904
													DbeeeM	3905
39. Epidemiologic Methods Development (Jay Beaumont 513-684-2145) (0.2/35.0/40.0)(100/VMH-Myy-547)	80	C					M	c	a				DbyyyM	3908
													DbyyyM	3909
													DbyyyM	3910
A. Complete PMR/SMR comparison (3Q81).													DbyyyM	3911
B. Complete computer run on Monson PMR/SMR System.			o										DbyyyM	3912
C. Publish Version D Life Table System.				o									DbyyyM	3913
D. Publish Epidemiolog exercises.					o								DbyyyM	3914
E. Initiate documentation for Version E of Life Table System.						o							DbyyyM	3915
													DbyyyM	3916

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
40. Mortality, Medical and Industrial Hygiene Study of the Painting Trades (NCI) (Dennis Zaebst 513-684-3255) (1.0/20.0/50.0)(1.0/20.0/50.0)(100/VMH-Mhy-599)	77	84					M	b	e				DbhyyM	3919
													DbhyyM	3920
													DbhyyM	3921
													DbhyyM	3922
A. Award contract (210-77-0096) (4Q77).													DbhyyM	3923
B. Select plants for walk-through surveys (2Q78).													DbhyyM	3924
C. Complete walk-through industrial hygiene surveys (4Q79).													DbhyyM	3925
D. Obtain original study protocol from contractor (4Q80).													DbhyyM	3926
E. Obtain new study protocol from contractor (3Q81).,													DbhyyM	3927
F. Complete OMB package for case control study.			o										DbhyyM	3928
G. Initiate mortality and case control study.				o									DbhyyM	3929
H. Complete eleven of fourteen industrial hygiene surveys.						o							DbhyyM	3930
I. Complete industrial hygiene reports (4Q83).													DbhyyM	3931
J. Complete final report and submit abstract to Director, NIOSH and copy to DTS (2Q84).													DbhyyM	3932
													DbhyyM	3933
													DbhyyM	3934
41. Medical, Biometric and Industrial Hygiene Study of Emerging Problems (Bill Halperin 513-684-3593) (10.0/250.0/500.0)(100/VMH-MNy-543)	80	C					M	g	a				DbNyyM	3937
													DbNyyM	3938
													DbNyyM	3939
													DbNyyM	3940
A. Emerging problems													DbNyyM	3941
1. Respondent to 5 emerging problems through 3Q81.													DbNyyM	3942
													DbNyyM	3943
2. Emerging problem requests received.			3	6	9	12							DbNyyM	3944
													DbNyyM	3945
3. Respond to new emerging problems.			1	3	4	5							DbNyyM	3946
													DbNyyM	3947
4. Complete reports on actions and close out.			3	6	9	12							DbNyyM	3948
													DbNyyM	3949
5. Recommend specific problems for next fiscal year projects.				o									DbNyyM	3950
													DbNyyM	3951
													DbNyyM	3952
6. Assist with HHE's			1	2	3	4							DbNyyM	3953
B. Exposure characterization of benzidine analog dyes													DbNyyM	3954
1. Complete study protocol (4Q81).													DbNyyM	3955
2. Identify facilities.			o										DbNyyM	3956
3. Initiate sampling surveys.				o									DbNyyM	3957
4. Initiate writing of draft report.					o								DbNyyM	3958
5. Complete final report and submit abstract to Director, NIOSH and copy to DTS.						o							DbNyyM	3959
													DbNyyM	3960
C. Final reports from FY'81													DbNyyM	3961
Milestones will be added during 1st quarter FY'82 review.													DbNyyM	3962
													DbNyyM	3963

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
42. Mortality Analysis of United Auto Workers Cohort (John Whalen 513-684-3593) (0.2/5.0/10.0)(0.2/5.0/10.0)(100/VMH-Myy-607)	81	84					M	b	e				DbyyyM	3966
													DbyyyM	3967
													Dbyy,M	3968
													DbyyyM	3969
A. Award contract (210-81-5104)(4Q81).													DbyyyM	3970
B. Initiate surveillance system.			o										DbyyyM	3971
C. Complete initial priority list of projects.				o									DbyyyM	3972
D. Initiate study of first process or agent.					o								DbyyyM	3973
E. Initiate second study.						o							DbyyyM	3974
F. Prepare interim report (2Q83).													DbyyyM	3975
G. Complete final report and submit abstract to Director, NIOSH and copy to DTS (1Q84).													DbyyyM	3976
													DbyyyM	3977
													DbyyyM	3978
43. Mortality and Industrial Hygiene Study of Workers Exposed to Styrene (NCI) (Jay Beaumont 513-684-?145) (0.5/20.0/30.0)(100/VMH-Mhy-600)	77	83					M	c	e				DbhyyM	3981
													DbhyyM	3982
													DbhyyM	3983
													DbhyyM	3984
A. Complete selection of cohort (3Q78).													DbhyyM	3985
B. Complete industrial hgyiene surveys (3Q79).													DbhyyM	3986
C. Complete industrial hygiene report (1Q81).													DbhyyM	3987
D. Complete conversion of microfilm to microfiche (2Q81).													DbhyyM	3988
E. Complete acquisition of 70% of death certificates.				o									DbhyyM	3989
F. Complete 95% vital status follow-up.					o								DbhyyM	3990
G. Complete data analysis.						o							DbhyyM	3991
H. Complete final report and submit abstract to Director, NIOSH and copy to DTS (2Q83).													DbhyyM	3992
													DbhyyM	3993
													DbhyyM	3994
44. Mortality Study of Workers in the Plywood, Paper and Pulp Industry (NCI) (Leo Blade 513-684-3255) (100/VMH-Myy-597)	76	82					M	b	e				DbyyyM	3997
													DbyyyM	3998
													DbyyyM	3999
													DbyyyM	4000
A. Initiate development of master file (1Q78).													DbyyyM	4001
B. Complete death certificate coding (4Q79).													DbyyyM	4002
C. Complete coding of new study members (2Q80).													DbyyyM	4003
D. Complete data analysis on mortality study (4Q81).													DbyyyM	4004
E. Complete final report on mortality study and submit abstract to Director, NIOSH and copy to DTS.			o										DbyyyM	4005
													DbyyyM	4006
F. Initiate walk-through industrial hygiene surveys.			o										DbyyyM	4007
G. Initiate indepth surveys.					o								DbyyyM	4008
H. Complete final industrial hygiene report and submit abstract to Director, NIOSH and copy to DTS.						o							DbyyyM	4009
													DbyyyM	4010
													DbyyyM	4011

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
45. Epidemiolcgic Support of TSCA (EPA)	82	C					M	g	c				DbyyyM	4014
(Dave Brown 513-684-3593)													DbyyyM	4015
(1.0/40.0/68.0)(100/VMH-Myy-609)													DbyyyM	4016
													DbyyyM	4017
A. Award IA 81-60 (3Q81).													DbyyyM	4018
B. Initiate walk-through surveys for first agent.			o										DbyyyM	4019
C. Complete background search for agent.				o									DbyyyM	4020
D. Complete interim report for first agent and recommend further study or not.					o								DbyyyM	4021
													DbyyyM	4022
E. Initiate walk-through surveys for second agent.					o								DbyyyM	4023
F. Complete background search for third agent.						o							DbyyyM	4024
Milestones proceed in this sequence into FY'83.													DbyyyM	4025
													DbyyyM	4026
46. Industrial Hygiene Study of New Agents-IV (NCI)	81	84					M	b	e				DcNyyM	4029
(Jim Oser 513-684-3255)													DcNyyM	4030
(0.2/75.0/80.0)(0.2/75.0/80.0)(100/VMH-MNy-554)													DcNyyM	4031
													DcNyyM	4032
A. Award contract (210-81-5103)			o										DcNyyM	4033
B. Identify first agent for study.				o									DcNyyM	4034
C. Complete Phase I for first agent.					o								DcNyyM	4035
D. Identify second agent for study.						o							DcNyyM	4036
E. Complete final report on first agent (2Q83).													DcNyyM	4037
F. Complete final report on second agent (2Q84).													DcNyyM	4038
G. Complete final report on third agent (4Q84).													DcNyyM	4039
													DcNyyM	4040

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MEC H	FUND	RESOURCES PY	NPF $1000	TF $1000		
OFFICE OF EXTRAMURAL COORDINATION AND SPECIAL PROJECTS													F M	4043
													F M	4044
47. NIOSH/EPA:NIOSH/NCI Interagency Energy/Cancer Research Agreements (Harris, 443-6377) (VCA-bB1-879) (1.5/0.005/0.050) (100/VCA-Myy-879)	76	C					M	c	a				FFyyyM	4045
													FFyyyM	4046
													FFyyyM	4047
													FFyyyM	4048
.1 NIOSH/NCI Interagency Agreement													FFyyyM	4049
a. Submit NCI IA to OPPE			o										FFyyyM	4050
b. Obtain signatures of concurrence on NCI IA				o									FFyyyM	4051
c. Hold quarterly meetings with NCI			o	o	o	o							FFyyyM	4052
d. Complete NCI six-month progress reports					o								FFyyyM	4053
e. Complete NCI Annual Progress Report			o										FFyyyM	4054
f. Solicit new cancer research proposals from divisions					o								FFyyyM	4055
g. Hold IA (NCI/EPA/NIOSH) peer review of proposed new cancer projects					o								FFyyyM	4056
													FFyyyM	4057
h. Hold annual review meeting with research divisions						o							FFyyyM	4058
.2 NIOSH/EPA/ Interagency Agreement													FFyyyM	4059
a. Hold quarterly meetings with EPA			o	o	o	o							FFyyyM	4060
b. Complete EPA Annual Progress Report			o										FFyyyM	4061
c. Complete EPA six-month Progress Report					o								FFyyyM	4062
d. Initiate EPA Laboratory Operating Plans			o										FFyyyM	4063
e. Review and submit Laboratory Operating Plans to EPA			o										FFyyyM	4064
.3 Other Interagency Activities													FFyyyM	4065
a. Solicit list of Interagency Agreements from NIOSH Offices and Divisions			o										FFyyyM	4066
													FFyyyM	4067
b. Compile list and submit to Director, NIOSH			o										FFyyyM	4068
c. Hold discussions with other Federal agencies, foundations, etc., regarding possible sources of funding for NIOSH projects			o	o	o	o							FFyyyM	4069
													FFyyyM	4070
													FFyyyM	4071
													FFyyyM	4072

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STRESS-RELATED DISORDERS

NIOSH concerns about job stress and its health consequences arise from (1) evidence linking stress with increased risk of cardiovascular disease, digestive disorders, and nervous disturbances, and (2) the recognition that certain occupations, because of the nature of their job tasks or work pressures imposed, show a disproportionate number of workers afflicted with these problems. In addition, spreading automation and new technology in the workplace have resulted in major changes in job tasks and organizational structure with new forms of stress emerging (e.g., loss of job control, automatic monitoring of one's performance, task-imposed isolation, high sensory-motor demands). Growing signs of workers' disaffection with their jobs, behavioral problems (e.g., increased absenteeism, smoking, drinking), and symptomatic health complaints mark such stressors which, without abatement, could portend more serious health problems. That over 50 percent of the U.S. work force is now engaged in white collar work--the target for the new technological revolution brought about by computers--gives further impetus to the need to study job-stress problems and means for their alleviation.

Division of Biomedical and Behavioral Sciences

This area of research and consultation in DBBS has two basic objectives--to identify work conditions that produce mental and physical health problems, and to develop and evaluate approaches for reducing workers' stress. During FY 1981, work in this program area continued in examining the stress consequences of machine-paced work. Findings reflecting on both psychological as well as physical health problems stemming from such job tasks were presented at the NIOSH-sponsored conference on occupational stress. In addition, field and laboratory efforts continued in defining job task and ergonomic factors responsible for visual, musculoskeletal, and general health complaints reported by users of video display equipment. Another conference held in FY 1981 was directed at Occupational Health Issues Affecting Clerical/Secretarial Personnel.

For FY 1982, major efforts will be directed to surveying stress/health problems in office workers as a follow-on to the FY 1981 conference. In addition, task analysis and ergonomic evaluations are planned in the telecommunications industry as part of a new project to define potential stressors in jobs subject to technological change via use of computers and electronic displays. Since over 50 percent of the Nation's work force is engaged in work activities that deal with information processing, significant efforts should be concentrated on these work activities. Also in FY 1982, efforts will continue in applying stress reduction programs at the worksite to select occupational groups for whom job redesign is not possible.

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
********STRESS-RELATED DISORDERS********													O	4076
													O	4077
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE													A O	4078
													A O	4079
1. Chronic Stress in Office Work (B. Cohen, 684-8293)	81	84					O	b	a				AayyyO	4081
(VOB-bXy-286)(1.1/260.9/290.0)(1.1/35.0/65.0)(100/VOB-Oyy-286)													AayyyO	4082
													AayyyO	4083
.1 Submit progress report to Director, DBBS			o	o	o	o							AayyyO	4084
.2 Conference													AayyyC	4085
a. Submit RFC to Director, DBBS for 8A contract award (1Q81)													AayyyO	4086
b. Submit RFC to OAMS (2Q81)													AayyyO	4087
c. Award contract (3Q81)													AayyyO	4088
d. Hold conference (4Q81)													AayyyO	4089
e. Receive conference proceedings			o										AayyyO	4090
f. Submit proceedings to Director, DBBS				o									AayyyO	4091
g. Submit abstract to Director, NIOSH				o									AayyyO	4092
.3 Questionnaire Survey													AayyyO	4093
a. Formulate draft of questions				o									AayyyO	4094
b. Peer review of RFC				o									AayyyO	4095
c. Submit for HSRB & OMB approval					o								AayyyO	4096
d. Submit RFC to Director, DBBS					o								AayyyO	4097
e. Submit RFC to OAMS					o								AayyyO	4098
f. Obtain HSRB approval					o								AayyyO	4099
g. Award contract						o							AayyyO	4100
h. Obtain OMB approval (2Q83)													AayyyO	4101
i. Initiate data collection (2Q83)													AayyyO	4102
j. Complete data analysis (2Q84)													AayyyO	4103
k. Submit final report to Director, DBBS (4Q84)													AayyyO	4104
l. Submit abstract to Director, NIOSH (4Q84)													AayyyO	4105
m. Submit project records to Q.A. Unit, DBBS (4Q84)													AayyyO	4106
.4 Hold ad hoc meeting on office workers health				o		o							AayyyO	4107
													AayyyO	4108

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
2. Health Risks in Information Processing (J. Hurrell 684-8293)	82	85					0	b	a				Aayyy0	4111
(1.7/400.0/455.0)(1.7/145.0/200.0)(0.5/20.0/30.0)													Aayyy0	4112
(100/VOB-Oyy-288)													Aayyy0	4113
													Aayyy0	4114
.1 Submit quarterly report to Director, DBBS			o	o	o	o							Aayyy0	4115
.2 Cooperative Agreement Work													Aayyy0	4116
a. Award cooperative agreements			o										Aayyy0	4117
b. Initiate development of simulator				o									Aayyy0	4118
c. Develop indices of strain						o							Aayyy0	4119
d. Complete simulator (2Q83)													Aayyy0	4120
e. Hold peer review-lab study (2Q83)													Aayyy0	4121
f. Obtain HSRB approval (2Q83)													Aayyy0	4122
g. Submit final protocol to Director, DBBS (2Q83)													Aayyy0	4123
h. Initiate lab studies (2Q83)													Aayyy0	4124
i. Complete lab studies (4Q84)													Aayyy0	4125
j. Complete data analysis (2Q85)													Aayyy0	4126
k. Submit report to Director, DBBS (4Q85)													Aayyy0	4127
.3 Field Evaluations													Aayyy0	4128
a. Initiate pilot field evaluations			o										Aayyy0	4129
b. Complete pilot evaluations						o							Aayyy0	4130
c. Complete questionnaire survey plan (1Q83)													Aayyy0	4131
d. Hold peer review-survey (2Q83)													Aayyy0	4132
e. Submit for HSRB and OMB approval (2Q83)													Aayyy0	4133
f. Submit RFC to Director, DBBS (2Q83)													Aayyy0	4134
g. Submit RFC to OAMS (2Q83)													Aayyy0	4135
h. Obtain HSRB approval (3Q83)													Aayyy0	4136
i. Award contract (4Q83)													Aayyy0	4137
j. Obtain OMB clearance (1Q84)													Aayyy0	4138
k. Initiate field data collection (1Q84)													Aayyy0	4139
l. Complete data collection (3Q84)													Aayyy0	4140
m. Complete data analysis (2Q85)													Aayyy0	4141
n. Submit study report to Director, DBBS (4Q85)													Aayyy0	4142
.4 Stress Reduction													Aayyy0	4143
a. Establish stress reduction lab					o								Aayyy0	4144
b. Submit study protocol to Director, DBBS (1Q83)													Aayyy0	4145
c. Conduct peer review (1Q83)													Aayyy0	4146
d. Obtain HSRB approval (1Q83)													Aayyy0	4147
e. Initiate subject testing (2Q83)													Aayyy0	4148
f. Complete subject testing (4Q83)													Aayyy0	4149
g. Submit study report to Director, DBBS (4Q84)													Aayyy0	4150
.5 Submit final project report to Director, DBBS (4Q85)													Aayyy0	4151
.6 Submit project records to Q.A. Unit, DBBS (4Q85)													Aayyy0	4152
.7 Submit abstract to Director, NIOSH (4Q85)						•							Aayyy0	4153
													Aayyy0	4154

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
3. Machine-Paced Stress in Postal Workers (M. Smith, 684-8386) (VOB-kAm-262)(100/VOB-Oyy-262)	79	82					O	b	a				Aayyy0	4157
													Aayyy0	4158
													Aayyy0	4159
.1 Consult Information Office (1Q80)													Aayyy0	4160
.2 Submit progress report to Director, DBBS			o	o	o	o							Aayyy0	4161
.3 Longitudinal Study													Aayyy0	4162
a. Submit RFC to Director, DBBS (1Q79)													Aayyy0	4163
b. Obtain HSRB approval (1Q79)													Aayyy0	4164
c. Award contract (3Q79)													Aayyy0	4165
d. Award incremental funding (2Q80)													Aayyy0	4166
e. Obtain stress strain data (4Q79)(1Q80)(3Q80)				o									Aayyy0	4167
f. Submit final report to Director, DBBS						o							Aayyy0	4168
g. Submit report to USPS and APWU						o							Aayyy0	4169
.4 National Questionnaire Survey													Aayyy0	4170
a. Obtain HSRB approval (1Q79)													Aayyy0	4171
b. Initiate survey data collection (4Q79)													Aayyy0	4172
c. Complete survey data collection (1Q80)													Aayyy0	4173
d. Complete survey data analysis			o										Aayyy0	4174
e. Complete final survey report					o								Aayyy0	4175
f. Submit final report to Director, DBBS						o							Aayyy0	4176
g. Submit report to USPS and APWU						o							Aayyy0	4177
.5 Submit project records to Q.A. Unit, DBBS						o							Aayyy0	4178
.6 Submit abstract to Director, NIOSH						o							Aayyy0	4179
													Aayyy0	4180
4. Phase Shifts and Stressor Effects (M. Colligan, 684-8286) (VOB-cAf-290)(100/VOB-Ofy-290)	80	82					O	c	a				Aafyy0	4183
													Aafyy0	4184
													Aafyy0	4185
.1 Complete literature review (3Q80)													Aafyy0	4186
.2 Prepare initial study plan (3Q80)													Aafyy0	4187
.3 Initiate pilot experiment (4Q80)													Aafyy0	4188
.4 Complete pilot study (1Q81)													Aafyy0	4189
.5 Finalize experimental design (1Q81)													Aafyy0	4190
.6 Hold peer review (2Q81)													Aafyy0	4191
.7 Initiate testing on main study (3Q81)													Aafyy0	4192
.8 Submit progress reports to Director, DBBS			o	o	o								Aafyy0	4193
.9 Complete testing on main study			o										Aafyy0	4194
.10 Complete report of study and submit to Director, DBBS				o									Aafyy0	4195
.11 Submit project's records to Q.A. Unit, DBBS				o									Aafyy0	4196
.12 Submit abstract to Director, NIOSH				o									Aafyy0	4197
													Aafyy0	4198

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000		
5. Stress/Trauma of Non-Traditional Jobs (B. Wilkes 684-8293)	81	84					0	b	a				Aayyy0	4201
(V0B-kEf-285)(1.3/145.0/175.0)(1.3/15.0/50.0)(100/V0B-0yy-285)													Aayyy0	4202
													Aayyy0	4203
.1 Initiate information search (1Q81)													Aayyy0	4204
.2 Submit progress reports to Director, DBBS			o	o	o	o							Aayyy0	4205
.3 Conduct peer review				o									Aayyy0	4206
.4 Submit final project protocol to Director, DBBS				o									Aayyy0	4207
.5 Ergonomic Evaluations													Aayyy0	4208
a. Award FFS-non-trad.-Job #1				o									Aayyy0	4209
b. Initiate evaluations - Job #1					o								Aayyy0	4210
c. Award FFD-Job #2 (1Q83)													Aayyy0	4211
d. Complete evaluations - Job #1 (2Q83)													Aayyy0	4212
e. Initiate evaluations - Job #2 (2Q83)													Aayyy0	4213
f. Receive report on Job #1 (3Q83)													Aayyy0	4214
g. Submit report to Director, DBBS - Job #1 (4Q83)													Aayyy0	4215
h. Complete evaluations - Job #2 (2Q84)													Aayyy0	4216
i. Receive report - Job #2 (3Q84)													Aayyy0	4217
j. Submit report, Job #2, to Director, DBBS (4Q84)													Aayyy0	4218
.6 Questionnaire Survey													Aayyy0	4219
a. Complete questionnaire and protocol					o								Aayyy0	4220
b. Submit protocol to HSRB					o								Aayyy0	4221
c. Obtain HSRB approval						o							Aayyy0	4222
d. Submit protocol to OMB						o							Aayyy0	4223
e. Complete RFC for data collection						o							Aayyy0	4224
f. Submit RFC to Director, DBBS (1Q83)													Aayyy0	4225
g. Submit RFC to OAMS (1Q83)													Aayyy0	4226
h. Obtain OMB clearance (3Q83)													Aayyy0	4227
i. Award contract (3Q83)													Aayyy0	4228
j. Initiate survey (4Q83)													Aayyy0	4229
k. Complete survey (1Q84)													Aayyy0	4230
l. Receive contractor's report (4Q84)													Aayyy0	4231
m. Submit final report to Director, DBBS (4Q84)													Aayyy0	4232
.7 Submit Final Project Report to Director, DBBS (4Q84)													Aayyy0	4233
.8 Submit project records to Q.A. Unit, DBBS (4Q84)													Aayyy0	4234
.9 Submit abstract to Director, NIOSH (4Q84)													Aayyy0	4235
													Aayyy0	4236

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	PMECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
6. Job Stress in Video Display Work (B. Stammerjohn, 684-8293)	78	83					0	b	a				AayyyO	4239
(VOB-kAm-267)(2.0/50.0/110.0)(100/VOB-Oyy-267)													AayyyO	4240
													AayyyO	4241
.1 Laboratory Studies													AayyyO	4242
A. Punch Press Simulation Task													AayyyO	4243
a. Complete punch-press simulator (3Q78)													AayyyO	4244
b. Initiate testing of subjects (4Q79)													AayyyO	4245
c. Complete testing of subjects (4Q81)													AayyyO	4246
d. Complete data analysis				o									AayyyO	4247
e. Complete draft final report					o								AayyyO	4248
B. Data Entry Simulation Task													AayyyO	4249
a. Obtain HSRB approval			o										AayyyO	4250
b. Complete simulation task			o										AayyyO	4251
c. Initiate testing of subjects				o									AayyyO	4252
d. Complete testing of subjects (1Q83)													AayyyO	4253
e. Complete data analyses (2Q83)													AayyyO	4254
f. Complete final report (4Q83)													AayyyO	4255
g. Submit final report to Director, DBBS (4Q83)													AayyyO	4256
.2 Worksite Studies													AayyyO	4257
A. University of Wisconsin Contract (210-79-0034)													AayyyO	4258
a. Award contract (3Q79)													AayyyO	4259
b. Expand data sample (3Q80)													AayyyO	4260
c. Review contractor's progress report			o	o	o	o							AayyyO	4261
d. Receive contractor's final report						o							AayyyO	4262
e. Submit final report to Director, DBBS						o							AayyyO	4263
f. Submit abstract of final report to Director, NIOSH						o							AayyyO	4264
B. Study of NIOSH Word Processing Operators													AayyyO	4265
a. Complete design of survey (4Q80)													AayyyO	4266
b. Administer first round of questionnaire (1Q81)													AayyyO	4267
c. Complete opthalmologic examinations (1Q81)													AayyyO	4268
d. Complete questionnaire survey(2Q81)													AayyyO	4269
e. Complete data analyses (3Q81)													AayyyO	4270
f. Submit final report to Director, DBBS				o									AayyyO	4271
g. Submit final report to Director, NIOSH				o									AayyyO	4272
C. Focal Field Studies													AayyyO	4273
a. Obtain HSRB clearance			o										AayyyO	4274
b. Submit for OMB clearance				o									AayyyO	4275
c. Initiate ergonomics surey				o									AayyyO	4276
d. Complete ergonomics survey				o									AayyyO	4277
e. Initiate questionnaire survey				o									AayyyO	4278
f. Obtain OMB clearance						o							AayyyO	4279
g. Complete questionnaire survey (2Q83)													AayyyO	4280
h. Complete study report (3Q83)													AayyyO	4281
i. Submit report to Director, DBBS (4Q83)													AayyyO	4282
.3 Submit progress report to Director, DBBS			o	o	o	o							AayyyO	4283
.4 Submit final project report to Director, DBBS (4Q83)													AayyyO	4284

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000		
.5 Submit project records to Q.A. Unit, DBBS (4Q83)													AayyyO	4285
.6 Submit abstract to Director, NIOSH (4Q83)													AayyyO	4286
													AayyyO	4287
7. Reducing Stress in Video Display Tasks (M. Dainoff, 684-8386)	81	83					O	b	a				AayyyO	4290
(VOB-kAG-266)(1.0/30.0/59.0)(100/VOB-Oyy-266)													AayyyO	4291
													AayyyO	4292
.1 Complete peer review (2Q81)													AayyyO	4293
.2 Obtain HSRB approval for subject testing (2Q81)													AayyyO	4294
.3 Laboratory Studies													AayyyO	4295
a. Complete development of task simulation (1Q81)													AayyyO	4296
b. Submit progress report to Director, DBBS			o	o	o	o							AayyyO	4297
c. Initiate testing: lighting & furniture			o										AayyyO	4298
d. Complete testing: lighting & furniture			o										AayyyO	4299
e. Initiate work/rest regimens testing				o									AayyyO	4300
f. Complete work/rest regimens				o									AayyyO	4301
g. Initiate testing of lighting				o									AayyyO	4302
h. Complete testing of lighting					o								AayyyO	4303
i. Initiate testing of furniture effects					o								AayyyO	4304
j. Complete testing of furniture effects					o								AayyyO	4305
k. Initiate testing of revised work/rest regimens (1Q83)													AayyyO	4306
l. Complete revised work/rest regimens (2Q83)													AayyyO	4307
m. Initiate glare control testing (2Q83)													AayyyO	4308
n. Complete glare control testing (2Q83)													AayyyO	4309
o. Complete study report (3Q83)													AayyyO	4310
p. Submit study report to Director, DBBS (4Q83)													AayyyO	4311
.4 NAS Conference													AayyyO	4312
a. Initiate IA with NAS for Conference (1Q81)													AayyyO	4313
b. Conduct Conference (4Q81)													AayyyO	4314
c. Receive Conference Proceedings				o									AayyyO	4315
d. Receive final report				o									AayyyO	4316
e. Submit final report to Director, DBBS				o									AayyyO	4317
.5 Submit final report to Director, DBBS (4Q83)													AayyyO	4318
.6 Submit project records to Q.A.Unit, DBBS (4Q83)													AayyyO	4319
.7 Submit abstract to Director, NIOSH (4Q83)													AayyyO	4320
													AayyyO	4321

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
8. Studies of Stress Reduction Approaches (L. Murphy, 684-8293) (VOB-mAy-269)(1.0/95.0/120.0)(100/VOB-Oyy-269)	79	83					0	c	a				AayyyO	4324
													AayyyO	4325
.1 UCLA Job Stress Conference													AayyyO	4326
a. Cosponsor conference (1Q79)													AayyyO	4327
b. Receive conference proceedings (4Q79)													AayyyO	4328
c. Submit edited proceedings to Director, DBBS (2Q80)													AayyyO	4329
d. Submit abstract to Director, NIOSH (3Q80)													AayyyO	4330
.2 Conduct peer review (2Q80)													AayyyO	4331
.3 Submit progress report to Director, DBBS			o	o	o	o							AayyyO	4332
.4 Worksite Studies													AayyyO	4333
a. Complete training program, nurses (4Q80)													AayyyO	4334
b. Initiate training program, sales clerks (4Q80)													AayyyO	4335
c. Initiate training program, blue collar workers (3Q81)													AayyyO	4336
d. Complete training program, sales clerks (2Q81)													AayyyO	4337
e. Submit report, nurses, to Director, DBBS (4Q81)													AayyyO	4338
f. Submit report, sales clerks, to Dir., DBBS (4Q81)													AayyyO	4339
g. Complete blue collar workers					o								AayyyO	4340
h. Initiate analysis of followup data						o							AayyyO	4341
i. Complete relaxation data analysis						o							AayyyO	4342
j. Complete follow-up data analysis (1Q83)													AayyyO	4343
k. Submit final report to Director, DBBS (4Q83)													AayyyO	4344
.5 Stress Management Data Purchase													AayyyO	4345
a. Purchase stress reduction data (2Q80)													AayyyO	4346
b. Receive report from contractor (4Q80)													AayyyO	4347
c. Submit report to Director, DBBS (1Q81)													AayyyO	4348
d. Submit data purchase orders to OAMS				o									AayyyO	4349
e. Receive reports from contractor						o							AayyyO	4350
f. Submit reports to Director, DBBS						o							AayyyO	4351
.6 Stress Control Manual													AayyyO	4352
a. Submit manual to Director, DBBS (4Q83)													AayyyO	4353
b. Submit manual to UTMD (4Q83)													AayyyO	4354
.7 Submit final project report to Director, DBBS (4Q83)													AayyyO	4355
.8 Submit abstract to Director, NIOSH (4Q83)													AayyyO	4356
.9 Submit project records to Q.A. Unit, DBBS (4Q83)													AayyyO	4357
													AayyyO	4358
													AayyyO	4359

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PHYSICAL AGENTS

The NIOSH physical agents program includes research studies in industrial radiation, occupational vibration, bioacoustics, and atmospheric extremes. Estimates of the work force population exposed to these agents are as high as 25 percent for industrial radiation, 10 percent for whole-body and segmental vibration, 25 percent to noise, and 25 percent to heat, cold, and pressure variations. By necessity, the program is composed of both field and inhouse laboratory research requiring a multidisciplinary approach. From workplace surveys and target occupational groups, industries that have potentially excessive exposures are identified and data collected. Medical and epidemiologic followup studies identify the specific hazard to the worker and the degree of injury. The adequacy of control technology strategies, including both administrative and engineering controls, is evaluated when indicated and specific recommendations made for reducing worker exposure.

Division of Biomedical and Behavioral Sciences

The DBBS program area in physical agents consists of projects in:

1. Industrial Radiation--Work previously completed has shown that radio frequency (RF) radiation under laboratory conditions is teratogenic. Staff have worked with DSDTT staff to produce a control technology guide that outlines the hazards of RF radiation from heat sealers and provides recommendations bearing on reducing workers' exposure. Continued research in RF radiation will include development of dosimetry equipment and examination of possible biological effects of low-frequency electromagnetic energy. An initiative in the area of optical radiation will be proposed if recommendations from the FY 1982 Symposium on Macular Degeneration so indicate.

2. Occupational Vibration--A research program that has investigated the prevalence of vibration white-finger disease will be concluded in FY 1982. Evaluation of protection from vibration afforded by different glove materials will be accomplished. Also in FY 1982, initial planning efforts directed toward whole-body vibration research will be undertaken.

3. Bioacoustics--The occupational bioacoustic program focuses on hearing conservation and hazards associated with impact/impulse noise. Previous work has provided an estimate of 3.7 million workers exposed to impact/impulse noise, and initial efforts were begun to develop sound-level meters capable of measuring impact/impulse noise. A field study of impact-noise-exposure levels in the U.S., to be initiated in FY 1982, will provide information enabling work practices and

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equipment that protect against impact noise in a manner similar to that produced from continuous noise. Validation of field methods proposed for determining effectiveness of ear plugs will be undertaken in FY 1982.

4. Atmospheric Extremes--In FY 1981 proceedings of a NIOSH workshop on heat stress were printed and distributed to interested government agencies, labor groups, and industries. Research in heat stress will continue to focus on the derivation of heat-stress indices appropriate for detection of imminent danger in miners. FYs 1982 and 1983 will be the second and third years of the 4-year effort to develop safety and health guides to prevent illnesses and injuries from cold exposure. Also during FYs 1982 and 1983, NIOSH will continue to identify health and safety problems of divers through interagency agreements with the National Oceanic and Atmospheric Administration and OSHA.

Division of Surveillance, Hazard Evaluations, and Field Studies

The physical agents research being conducted in DSHEFS pertains to ionizing and nonionizing radiation. The ongoing studies involving ionizing radiation include epidemiologic/industrial hygiene studies of uranium miners and millers, nuclear shipyard workers, and workers at a uranium enrichment plant. In FY 1981, the retrospective cohort mortality portion of the nuclear shipyard study was completed.

An ongoing study in ionizing radiation involves an assessment of effects on the reproductive systems of female employees exposed to microwave radiation. However, a suitable cohort has not been found to date.

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000			
*******PHYSICAL AGENTS*******														Q	4363
														Q	4364
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE													A	Q	4365
													A	Q	4366
1. Effects of Impulse Noise on the Auditory System (1152)--													A	Q	4367
6/30/83--$98,213--D. Wasserman													A	Q	4368
													A	Q	4369
2. Whole Body Vibration: Health Effects (D. Badger, 684-8286)	79	82					Q	c	a				AafyyQ		4371
(VOB-nHf-279)(100/VOB-Qfy-279)													AafyyQ		4372
													AafyyQ		4373
.1 Complete peer review (2Q80)													AafyyQ		4374
.2 Submit progress report to Director, DBBS			o	o	o	o							AafyyQ		4375
.3 In-house Animal Tests													AafyyQ		4376
a. Complete installation of body shaker (4Q80)													AafyyQ		4377
b. Initiate primate testing (2Q81)													AafyyQ		4378
c. Complete primate testing				o									AafyyQ		4379
d. Complete final report					o								AafyyQ		4380
e. Submit final report to Director, DBBS						o							AafyyQ		4381
f. Submit abstract to Director, NIOSH						o							AafyyQ		4382
.4 Submit project records to Q.A. Unit, DBBS						o							AafyyQ		4383
													AafyyQ		4384
3. Health and Safety Effects of Cold Stress (W. Carlson, 684-8286)	81	84					Q	b	a				AafyyQ		4387
(VOB-eAf-283)(1.0/90.0/120.0)(1.0/60.0/90.0)(100/VOB-Qfy-283)													AafyyQ		4388
													AafyyQ		4389
.1 Prepare project protocol (2Q81)													AafyyQ		4390
.2 Hold project peer review (3Q81)													AafyyQ		4391
.3 Submit quarterly report to OD, DBBS			o	o	o	o							AafyyQ		4392
.4 Submit revised protocol to OD, DBBS				o									AafyyQ		4393
.5 Obtain HSRB approval				o									AafyyQ		4394
.6 Submit cooperative agreement to OAMS					o								AafyyQ		4395
.7 Award cooperative agreement					o								AafyyQ		4396
.8 Analyze existing data bases													AafyyQ		4397
a. Assess injury records with DSR					o								AafyyQ		4398
b. Assess/evaluate target work sites						o							AafyyQ		4399
c. Establish decision point for "Worst Case"						o							AafyyQ		4400
.9 Identify 5 worksites with high cold risks (1Q83)													AafyyQ		4401
.10 Perform initial probe study (2Q83)													AafyyQ		4402
.11 Introduce corrective interventions (3Q83)													AafyyQ		4403
.12 Monitor progress of interventions (4Q83)													AafyyQ		4404
.13 Perform follow up tests and evaluations (2Q84)													AafyyQ		4405
.14 Submit final report to OD, NIOSH (4Q84)													AafyyQ		4406
.15 Submit abstract to Director, NIOSH (4Q84)													AafyyQ		4407
.16 Submit project records to Q.A. Unit, DBBS (4Q84)													AafyyQ		4408
													AafyyQ		4409

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
4. Clothing Selection in Cold Environments (R. James, 684-8469) (0.9/34.1/64.1)(100/VOA/Qfi-307)	82	83					Q	c	a				AafiuQ	4412
													AafiuQ	4413
													AafiuQ	4414
.1 Submit progress report to Director, DBBS			o	o	o	o							AafiuQ	4415
.2 Initiate literature search			o										AafiuQ	4416
.3 Submit fee for services requisition			o										AafiuQ	4417
.4 Obtain final report from consultant					o								AafiuQ	4418
.5 Conduct field investigations on winter clothing design			o	o	o	o							AafiuQ	4419
.6 Complete literature search						o							AafiuQ	4420
.7 Submit articles for publication						o							AafiuQ	4421
.8 Obtain work practices report from consultant						o							AafiuQ	4422
.9 Complete review of all data (2Q83)													AafiuQ	4423
.10 Prepare recommendations for clothing use (3Q83)													AafiuQ	4424
.11 Submit report for publication (3Q83)													AafiuQ	4425
.12 Submit report to Unions, and management (4Q83)													AafiuQ	4426
.13 Submit final report to Director, DBBS (4Q83)													AafiuQ	4427
.14 Submit abstract of final report to Director, NIOSH (4Q83)													AafiuQ	4428
													AafiuQ	4429

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
5. Safety and Health of Commercial Divers (D. Badger, 684-8286) (VOB-aXb-296)(1.0/90.0/120.0)(100/VOB-Qfy-296)	80	83					Q	b	a				AafyyQ	4432
													AafyyQ	4433
													AafyyQ	4434
.1 Complete peer review (1Q80)													AafyyQ	4435
.2 Establish diver data process center (1Q80)													AafyyQ	4436
.3 Award contract for X-ray (osteonecrosis)(3Q80)													AafyyQ	4437
.4 Award contract "Hyperbaric Cond./Drugs" (4Q80)													AafyyQ	4438
.5 Complete workshop "Common Drugs/hyperbaric Testing" (4Q80)													AafyyQ	4439
.6 Complete Workshop "Methods/Sudden Loss Consciousness" (4Q80)													AafyyQ	4440
.7 Receive draft "Decompression Tables for Tunnel Work (3Q80)													AafyyQ	4441
.8 Receive report "Hyperbaric Conditions/Reprod." (2Q80)													AafyyQ	4442
.9 Establish National Diving Accident Newwork (3Q80)													AafyyQ	4443
.10 Initiate I.A. University Rhode Island Diver Mortality (1Q80)													AafyyQ	4444
.11 Submit progress report to Director, DBBS			o	o	o	o							AafyyQ	4445
.12 Update National Plan for Safety and Health of Divers													AafyyQ	4446
a. Submit RFC to Director, DBBS			o										AafyyQ	4447
b. Submit RFC to OAMS			o										AafyyQ	4448
c. Award contract (3Q82)					o								AafyyQ	4449
d. Review contractor's reports					o	o							AafyyQ	4450
e. Monitor contract (2Q83)					o								AafyyQ	4451
f. Submit final report to Director, DBBS (4Q83)													AafyyQ	4452
g. Submit abstract to Director, NIOSH (4Q83)													AafyyQ	4453
.13 Diving in Polluted Waters													AafyyQ	4454
a. Execute agreement with NOAA for report (1Q81)													AafyyQ	4455
b. Monitor progress of report development (2Q81)(4Q81)													AafyyQ	4456
c. Receive final report			o										AafyyQ	4457
d. Submit final report to Director, DBBS				o									AafyyQ	4458
e. Submit abstract of final report to Director, NIOSH				o									AafyyQ	4459
.14 Drug Effects Under Hyperbaric Conditions													AafyyQ	4460
a. Award contract (4Q80)													AafyyQ	4461
b. Initiate experimentation (1Q81)													AafyyQ	4462
c. Complete 3 of 10 drug tests (2Q81)													AafyyQ	4463
d. Receive interium report (4Q81)													AafyyQ	4464
e. Complete 7 of 10 drug tests (3Q81)													AafyyQ	4465
f. Complete all drug testing			o										AafyyQ	4466
g. Receive final report				o									AafyyQ	4467
h. Submit final report to Director, DBBS					o								AafyyQ	4468
i. Submit abstract of final report to Director, NIOSH					o								AafyyQ	4469
.15 National Diving Accident Network													AafyyQ	4470
a. Baseline Data on Divers													AafyyQ	4471
1. Execute IA with OSHA on physical exams (1Q81)													AafyyQ	4472
2. Monitor number of exams given (2Q81, 3Q81)													AafyyQ	4473
3. Complete 100 exams						o							AafyyQ	4474
4. Input data into network						o							AafyyQ	4475
b. Diving Accident Centers (Duke [illegible]iversity)													AafyyQ	4476
1. Monitor reports from centers on diving accidents			o	o	o	o							AafyyQ	4477

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000		
2. Receive data summaries of diver accident pathology/mortality (1Q83)													AafyyQ	4478
3. Submit IA for training manual development			o										AafyyQ	4479
4. Receive training manual (3Q83)					o								AafyyQ	4480
5. Submit training manual (3Q83)													AafyyQ	4481
c. University of Rhode Island Mortality Study													AafyyQ	4482
1. Monitor collection of fatality cases			o	o	o	o							AafyyQ	4483
2. Receive summaries of diver fatality statistics			o		o								AafyyQ	4484
													AafyyQ	4485
													AafyyQ	4486

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	PMECH	FUND	RESOURCES PY	HPF $1000	TF $1000		
6. Impact/Impulsive Noise Data Base (J. Erdreich, 684-8281)	78	82					Q	b	a				AefyyQ	4489
(VOG-nGf-363) (100/VOG-Qfy-352) (100/VOG-Qfi-363)													AefyyQ	4490
													AefyyQ	4491
.1 Information Development and Analysis													AefyyQ	4492
a. Initiate review of existing data bases (1Q80)													AefyyQ	4493
b. Submit CHABA IA to Director, DBBS (1Q80)(1Q81)			o										AefyyQ	4494
c. Award IA (1Q80)(1Q81)				o									AefyyQ	4495
d. Initiate evaluation of measurement techniques (1Q80)													AefyyQ	4496
e. Begin to refine and develop new techniques (3Q80)													AefyyQ	4497
f. Complete technique development (4Q80)													AefyyQ	4498
g. Obtain English noise and hearing data (4Q80)													AefyyQ	4499
h. Obtain Polish noise and hearing data (2Q81)													AefyyQ	4500
i. Complete analysis of English and Polish data (3Q81)													AefyyQ	4501
.2 Submit progress report to Director, DBBS			o	o	o	o							AefyyQ	4502
.3 Review state-of-art concerning impulse noise hazard													AefyyQ	4503
a. Prepare report on international consensus concerning			o										AefyyQ	4504
impulse noise hazard and measurement													AefyyQ	4505
b. Prepare report comparing foreign data with continuous			o										AefyyQ	4506
noise data													AefyyQ	4507
c. Submit report to Director, DBBS				o									AefyyQ	4508
.4 Impulse Noise Field Measurement													AefyyQ	4509
a. Conduct peer review of noise measurement protocol			o										AefyyQ	4510
b. Initiate twenty industrial noise surveys			o										AefyyQ	4511
c. Complete noise surveys				o									AefyyQ	4512
d. Develop model for noise contributions in multipath					o								AefyyQ	4513
environment													AefyyQ	4514
e. Analyze noise measurements and prepare report						o							AefyyQ	4515
f. Complete document on instrumentation measurement						o							AefyyQ	4516
specifications													AefyyQ	4517
g. Complete report on predicting exposure of workers						o							AefyyQ	4518
h. Submit report to Director, DBBS						o							AefyyQ	4519
.5 Application of Acoustic Data													AefyyQ	4520
a. Complete protocol for laboratory study of effectiveness						o							AefyyQ	4521
of hearing protectors in impulse noise													AefyyQ	4522
b. Complete protocol for audiometric study of impulse noise						o							AefyyQ	4523
exposed populations													AefyyQ	4524
c. Submit protocols to Director, DBBS						o							AefyyQ	4525
.6 EPA Interagency Agreement (non-auditory effects)													AefyyQ	4526
a. Receive IA from EPA			o										AefyyQ	4527
b. Review EPA feasibility study			o										AefyyQ	4528
c. Submit protocol to Director, DBBS				o									AefyyQ	4529
d. Obtain HSRB clearance				o									AefyyQ	4530
e. Submit RFC to OAMS				o									AefyyQ	4531
f. Award contract					o								AefyyQ	4532
g. Transfer contract to new project						o							AefyyQ	4533
.7 Submit final project report to Director, DBBS						o							AefyyQ	4534

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000		
.8 Submit abstract to Director, NIOSH						o							AefyyQ	4535
.9 Submit project records to Q.A. Unit, DBBS						o							AefyyQ	4536
													AefyyQ	4537
7. Work Practices for Vibration Reduction (V. Behrens, 684-8281) (100/VOG-Qfi-366)	82	82					Q	c	a				AefiyQ	4540
													AefiyQ	4541
													AefiyQ	4542
.1 Begin designing Test Instrumentation System (TIS)			o										AefiyQ	4543
.2 Complete survey of glove manufacturers			o										AefiyQ	4544
.3 Order gloves for testing			o										AefiyQ	4545
.4 Complete designing TIS				o									AefiyQ	4546
.5 Begin implementation of TIS				o									AefiyQ	4547
.6 Complete implementation of TIS					o								AefiyQ	4548
.7 Complete evaluation of TIS					o								AefiyQ	4549
.8 Complete SOP					o								AefiyQ	4550
.9 Conduct peer review					o								AefiyQ	4551
.10 Submit protocol to Director, DBBS					o								AefiyQ	4552
.11 Begin glove test					o								AefiyQ	4553
.12 Complete glove testing					o								AefiyQ	4554
.13 Complete data analysis						o							AefiyQ	4555
.14 Submit draft final report to Director, DBBS						o							AefiyQ	4556
.15 Submit abstract to Director, NIOSH						o							AefiyQ	4557
.16 Submit project records to Q. A. Unit, DBBS						o							AefiyQ	4558
													AefiyQ	4559

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
8. RF/Microwave Dosimetry Development (D. Conover, 684-8482) (VOG-hCa-353)(100/VOG-Qaf-353)	81	82					Q	d	a				AeafyQ	4562
													AeafyQ	4563
													AeafyQ	4564
.1 Magnetic Field Probes - NBS													AeafyQ	4565
a. Submit NBS IA to Director, DBBS (1Q81)													AeafyQ	4566
b. Submit IA to OPPE (1Q81)													AeafyQ	4567
c. Award IA (2Q81)													AeafyQ	4568
d. Initiate Magnetic Field Probe design (2Q81)													AeafyQ	4569
e. Complete probe design (3Q81)													AeafyQ	4570
f. Deliver Magnetic Field Probe to NIOSH (4Q81)													AeafyQ	4571
g. Receive final IA report (4Q81)													AeafyQ	4572
h. Submit final report to Director, DBBS (4Q81)													AeafyQ	4573
i. Submit abstract to Director, NIOSH (4Q81)													AeafyQ	4574
.2 RF Power Absorption Analyzer - NBS													AeafyQ	4575
a. Submit NBS IA to Director, DBBS (1Q81)													AeafyQ	4576
b. Submit IA to OPPE (1Q81)													AeafyQ	4577
c. Award IA (2Q81)													AeafyQ	4578
d. Initiate absorption analyzer development (2Q81)													AeafyQ	4579
e. Complete design					o								AeafyQ	4580
f. Receive higher frequency RF absorption analyzer						o							AeafyQ	4581
g. Receive final IA report						o							AeafyQ	4582
h. Submit final report to Director, DBBS						o							AeafyQ	4583
i. Submit abstract to Director, NIOSH						o							AeafyQ	4584
.3 Submit progress report to Director, DBBS			o	o	o	o							AeafyQ	4585
.4 Submit final project report to Director, DBBS						o							AeafyQ	4586
.5 Submit abstract to Director, DBBS						o							AeafyQ	4587
													AeafyQ	4588

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
9. Imminent Danger from Heat Stress in Mines (R. James, 684-8286) (VOA/nXf/305)(1.1/18.0/50.0)(100/VOA-Qfm-305)	80	83					Q	b	a				AefmnQ	4591
													AefmnQ	4592
													AefmnQ	4593
.1 Consult Information Office (1Q80)													AefmnQ	4594
.2 Submit progress report to Director, DBBS			o	o	o	o							AefmnQ	4595
.3 Workshop on Heat Stress													AefmnQ	4596
a. Complete proceedings of workshop (3Q80)													AefmnQ	4597
b. Submit proceedings to Director, DBBS (3Q80)													AefmnQ	4598
c. Submit abstract of proceedings to Director, NIOSH (4Q80)													AefmnQ	4599
.4 Worksite Investigation													AefmnQ	4600
a. Submit RFC to Director, DBBS (2Q80)													AefmnQ	4601
b. Negotiate contract (4Q80)													AefmnQ	4602
c. Award contract (2Q81)													AefmnQ	4603
d. Contract Monitoring													AefmnQ	4604
e. Obtain HSRB clearance			o										AefmnQ	4605
f. Submit application for OMB clearance			o										AefmnQ	4606
g. Obtain OMB clearance					o								AefmnQ	4607
h. Begin summer phase of study						o							AefmnQ	4608
i. Complete summer phase of study						o							AefmnQ	4609
j. Start winter phase of study (1Q83)													AefmnQ	4610
k. Complete winter phase of study (2Q83)													AefmnQ	4611
l. Complete data analysis (3Q83)													AefmnQ	4612
m. Contractor submits final report (4Q83'													AefmnQ	4613
n. Submit final report to Director, DBBS (4Q83)													AefmnQ	4614
o. Submit abstract to Director, NIOSH (4Q83)													AefmnQ	4615
p. Submit project records to Q. A. Unit, DBBS (4Q83)													AefmnQ	4616
.5 Heat Stress Guides													AefmnQ	4617
a. Begin writing Guide #1 (1Q81)													AefmnQ	4618
b. Submit Guide #1 for NIOSH clearance			o										AefmnQ	4619
c. Issue fee for service contract for Guide #2 (4Q81)													AefmnQ	4620
d. Submit Guide #2 for NIOSH clearance					o								AefmnQ	4621
e. Submit Guides to Director, DBBS					o								AefmnQ	4622
f. Submit Guides to Director, DCDSD					o								AefmnQ	4623
.6 Cardiovascular Effects of Heat Stress													AefmnQ	4624
a. Initiate literature search			o										AefmnQ	4625
b. Complete literature search				o									AefmnQ	4626
c. Complete draft project concept					o								AefmnQ	4627
d. Submit concept memorandum to Director, DBBS					o								AefmnQ	4628
													AefmnQ	4629

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
DIVISION OF SAFETY RESEARCH													E Q	4632
													E Q	4633
10. Effects of Heat on Safe Work Behavior (Jensen 923-7454)	79	82					Q	b	a				EbfyyQ	4634
(VLD-abf-836)(100/VEb-Qfy-836)													EbfyyQ	4635
.1 Awarded contract No. 210-79-0021 (4Q79)													EbfyyQ	4636
.2 Initiated data collection (3Q80)													EbfyyQ	4637
.3 Submitted time and cost extension of contract to OPPE (3Q81)													EbfyyQ	4638
													EbfyyQ	4639
.4 Data collection completed 4Q81)													EbfyyQ	4640
.5 Receive draft final report from contractor			o										EbfyyQ	4641
.6 Complete technical review (evaluate & edit)				o									EbfyyQ	4642
.7 Present research findings to OSHA					o								EbfyyQ	4643
.8 Submit approved final report to NITS					o								EbfyyQ	4644
.9 Transmit abstract to Director, NIOSH					o								EbfyyQ	4645
.10 Prepare manuscript for journal publication						o							EbfyyQ	4646
.11 Complete technical review of manuscript for journal publication						o							EbfyyQ	4647
													EbfyyQ	4648
.12 Submit manuscript for publication in the appropriate journal						o							EbfyyQ	4649
													EbfyyQ	4650
In-House Assement of Workers' Compensation Data													EbfyyQ	4651
.13 Draft report on workers' compensation data for heat induced injury				o									EbfyyQ	4652
													EbfyyQ	4653
.14 Complete technical review of report				o									EbfyyQ	4654
.15 Obtain final clearance for publication					o								EbfyyQ	4655
.16 Submit paper for publication						o							EbfyyQ	4656
													EbfyyQ	4657

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CONTROL OCCUPATIONAL SAFETY AND HEALTH PROBLEMS

NIOSH's goal, to control occupational safety and health problems, is the heart of its prevention program. Under this goal NIOSH assesses solutions to identified new and emerging problems through the disciplines of engineering, ergonomics, and industrial hygiene and safety. NIOSH investigators recommend systems to control occupational hazards, including engineering design, protective equipment, and work practices, as well as environmental and medical monitoring to detect failure in the control system. The following long-range objectives for the Nation are addressed under this goal:

Safety

1. By 1990, workplace accidental deaths for employers with 11 or more employees should be reduced to less than 3,750 annually. (In 1978, there were 4,170 work-related fatalities for employers with 11 or more employees.)

2. By 1990, the rate of work-related disabling injuries should be reduced to 8.3 cases per 100 full-time workers. (In 1978, there were about 9.2 cases per 100 workers.)

3. By 1990, lost workdays due to injuries should be reduced to 55 per 100 workers annually. (In 1978, about 62.1 work days per 100 workers were lost.)

4. By 1990, the prevalence of occupational noise-induced hearing loss should be reduced to 415,000 cases. (In 1975, there were an estimated 462,000 cases of work-related hearing loss.)

Respiratory Health

5. By 1990, among workers newly exposed after 1985, there should be virtually no new cases of asbestosis. (In 1979, there were an estimated 5,000 cases of asbestosis.)

6. By 1990, among workers newly exposed after 1985, there should be virtually no new cases of byssinosis. (In 1977, an estimated 84,000 cases of byssinosis were expected in active workers.)

7. By 1990, among workers newly exposed after 1985, there should be virtually no new cases of silicosis. (In 1979, an estimated 60,000 cases of silicosis were expected among active workers in mining, foundries, stone, clay and glass products, and abrasive blasting.)

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8. By 1990, among workers newly exposed after 1985, there should be virtually no new cases of coal workers pneumoconiosis. (In 1974, there were an estimated 19,400 cases of coal workers' pneumoconiosis.)

9. By 1990, occupational heavy-metal poisoning (lead, arsenic, zinc) should be virtually eliminated. (Baseline data unavailable.)

Cutaneous Health

10. By 1990, the incidence of compensable occupational dermatitis should be reduced to about 60,000 cases. (In 1976, there were about 70,000 cases involving compensation.)

And the following FY 1982 objectives requested by DOL's NIOSH Planning Group also are considered under this goal:

First-Order Priority

1. Develop a system, for MSHA, to certify the performance of new types of mine dust sampling equipment.

2. Develop and improve sampling and analytical methods, for OSHA, on 2-acetylaminofluorene, propylene imine, B-propiolactone, maneb, cyanic acid, benzidine yellow, benzidine orange, monoacetyl derivatives of benzidene, osmium tetroxide, phosgene, chlorinated dibenzofurans, and asbestos.

Second-Order Priority

3. Assess the problems involved with protection from falls to provide the foundation for an integrated body of fall-protection standards, for OSHA, on ladder design; safety-net design and condition; life line, safety belts, and safety harness design; guard rail design; walking-working surface friction; and rest-platform spacing in long-ladder systems.

4. Establish a program, for OSHA, to address questions relating to personal protective equipment such as respirators and clothing, and to decontamination procedures.

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Third-Order Priority

5. Develop and operate a system, for OSHA, for processing and storing audiograms provided to coal miners by operators.

6. Develop a system that is accessible to all MSHA field offices for analyzing potable water samples.

7. Develop technology, for MSHA, for the control of mercury fumes and vapors in the mining industry.

8. Develop criteria, for OSHA, for physicians to use in determining an individual worker's ability to wear respirators.

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RESPIRATORS

Two recent events have focused national attention on and provided direction to the legislatively mandated NIOSH respirator program: First, a panel of recognized experts found that the MSHA/NIOSH respirator approval system needed a major upgrading of the respirator performance requirements that are published in Title 30, Code of Federal Regulations, Part 11. Second, an International Respirator Research Workshop sponsored by NIOSH, revealed needs for (1) the availability of more effective and comfortable respirators, (2) development of better respirator programs, (3) upgrading of respirator performance requirements, and (4) determination of whether the added breathing resistance created by the use of respirators can be used as a factor in determining the effect of such use upon workers with obstructed airways. In response to both of these events, NIOSH has begun a research effort to develop new respirator performance requirements. NIOSH will systematically determine the levels of protection required by respirator wearers and develop performance requirements and test procedures that will ensure that respirator wearers will obtain the protective levels they have come to expect of MSHA/NIOSH-approved respirators. At the same time, the development of better respirator programs and encouraging the availability of better respirators will be carried forward by cooperative efforts with the respirator manufacturers and users. The MSHA/NIOSH respirator approval program continues, but NIOSH is conducting an evaluation of previously approved respirators through an active field evaluation program.

Division of Respiratory Disease Studies

DRDS will investigate the effects of respirator use (added breathing resistance) under conditions of high metabolic demand. The physiologic demands of breathing through a fixed added resistance for long time periods at low work loads and for short periods at high work loads will be evaluated under the controlled setting of the Division's exercise-testing laboratory. The results of this study will provide additional research information necessary for the establishment of criteria for determining whether a worker is medically fit to wear a respirator under the demand conditions of his or her employment.

Division of Safety Research

DSR has assembled a basic staff of professional personnel who are knowledgeable in all areas of respiratory protection. These personnel, together with contractors and consultants as required, will

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continue the MSHA/NIOSH respirator approval program, evaluate that program using field investigative techniques, and implement a strong, innovative respirator research program. Research efforts will be conducted in cooperation with industry, universities, and respirator manufacturers and will focus first on upgrading the present requirements of the existing approval regulations, 30 CFR Part 11.

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
********RESPIRATORS********													D	4661
													D	4662
DIVISION OF RESPIRATORY DISEASE STUDIES													C D	4663
													C D	4664
1. Respirator Use Under Conditions of High Metabolic Demands	82	83					D	c	d				CcdmyD	4666
(Bauer M 304-599-7223)(2.0/54.3/114.3)(100/VCc-Ddm-212)													CcdmyD	4667
													CcdmyD	4668
.1 Develop protocol for human subject exercise testing				o									CcdmyD	4669
.2 Modification of existing facilities				o									CcdmyD	4670
.3 Begin studies on human subjects					o								CcdmyD	4671
.4 Complete studies on 1/4 of study population						o							CcdmyD	4672
.5 Complete studies of 1/2 of study population (1Q83)													CcdmyD	4673
.6 Complete studies on subjects (3Q83)													CcdmyD	4674
.7 Complete data analysis (4Q83)													CcdmyD	4675
.8 Submit final report and abstract to Director, NIOSH, with													CcdmyD	4676
with copy of report and abstract to DTS (4Q83)													CcdmyD	4677
													CcdmyD	4678
2. Effects of Added Resistance to Breathing	77	82					D	c	d				CcmmyD	4681
(Hodous T 304-599-7223) (VKH-eDp-217)(100/VCc-Dmm-217)													CcmmyD	4682
													CcmmyD	4683
.1 Select and identify subjects				o									CcmmyD	4684
.2 Complete collection of data					o								CcmmyD	4685
.3 Complete analysis of data						o							CcmmyD	4686
.4 Submit final report and abstract to Director, NIOSH,													CcmmyD	4687
with copy of report and abstract to DTS						o							CcmmyD	4688
													CcmmyD	4689

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
DIVISION OF SAFETY RESEARCH													E D	4692
													E D	4693
3. Atmosphere Supplied Respirator Testing (Terry 923-7337) (VLI-mpb-854)(7.0/50.0/260.0)(100/VEd-Dyy-854)	72	C					D	b	a				EdyyyD	4694
													EdyyyD	4695
.1 Evaluate respirators submitted for approval and extensions of approvals as required by 30 CFR, Part 11			21	42	63	84							EdyyyD	4696
													EdyyyD	4697
a. Evaluate 100% of minor revisions within 60 days of acceptance.			o	o	o	o							EdyyyD	4698
													EdyyyD	4699
b. Evaluate 75% of major submissions within 3 months of acceptance			o	o	o	o							EdyyyD	4700
													EdyyyD	4701
c. Evaluate 100% of major submissions within 8 months of acceptance			o	o	o	o							EdyyyD	4702
													EdyyyD	4703
.2 Review quality control plans for minor nonfunctional revisions			12	24	36	48							EdyyyD	4704
													EdyyyD	4705
a. Evaluate 80% of minor submissions within 21 days of			o	o	o	o							EdyyyD	4706
b. Evaluate 100% of minor submissions within 45 days of acceptance			o	o	o	o							EdyyyD	4707
													EdyyyD	4708
.3 Evaluate 100% of available scheduled audit respirators required for annual survey			3	6	9	12							EdyyyD	4709
													EdyyyD	4710
.4 Perform audit respirator testing arising from field complaints.			o	o	o	o							EdyyyD	4711
													EdyyyD	4712
													EdyyyD	4713
4. Air Purifying Respirator Testing, TCB (Bollinger 923-7337) (VLI-mpb-853)(6.0/150.0/330.0)(100/VEd-Dyy-853)	72	C					D	b	a				EdyyyD	4716
													EdyyyD	4717
.1 Evaluate respirators submitted for approvals and extensions of approvals as required by 30 CFR 11.			18	36	54	72							EdyyyD	4718
													EdyyyD	4719
a. Evaluate 100% of minor submissions within 30 days of acceptance			o	o	..o	..o							EdyyyD	4720
													EdyyyD	4721
b. Evaluate 80% of major submissions within 3 months of acceptance			o	o	..o	..o							EdyyyD	4722
													EdyyyD	4723
c. Evaluate 100% of major submission within 8 months of acceptance			o	o	..o	..o							EdyyyD	4724
													EdyyyD	4725
.2 Review quality control plans for nonfunctional revisions			8	16	24	.32							EdyyyD	4726
a. Review 80% of minor revisions within 30 days of acceptance			o	o	..0	..0							EdyyyD	4727
													EdyyyD	4728
b. Review 100% of minor revisions within 6 months of acceptance			o	o	..o	..o							EdyyyD	4729
													EdyyyD	4730
.3 Evaluate 100% of available off shelf audit samples			10	20	.30	.40							EdyyyD	4731
.4 Perform audit testing arising from field complaints			o	o	o	o							EdyyyD	4732
.5 Human Subject Selection Contract													EdyyyD	4733
a. Initiate renewal of contract				o									EdyyyD	4734
b. Renewal of contract					o								EdyyyD	4735
c. Contractor establishes test pools					o								EdyyyD	4736
d. Submit final report of 2nd year effort to the Office of the Director (4Q83)													EdyyyD	4737
													EdyyyD	4738
													EdyyyD	4739

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
5. Field Investigations and N.C.E.	81	C					D	a	a				EdyyyD	4742
Documentation Program-FIG-(Myers 923-7331)													EdyyyD	4743
(VLI-mpb-857)(7.0/150.0/360.0)(100/VEd-Dyy-857)													EdyyyD	4744
.1 Respond by phone, letter, or report to user complaints:			o	o	o	o							EdyyyD	4745
a. 80% completed by letter or phone 5 days after receiving complaint;			o	o	o	o							EdyyyD	4746
													EdyyyD	4747
b. 13% completed with laboratory report 30 days after completion of lab testing;			o	o	o	o							EdyyyD	4748
													EdyyyD	4749
c. 7% completed as research reports from on-going site investigations 60 days after completion of lab analysis			o	o	o	o							EdyyyD	4750
													EdyyyD	4751
													EdyyyD	4752
.2 Dimensional analysis report on equipment received from from field problem complaints			o	o	o	o							EdyyyD	4753
													EdyyyD	4754
a. 75% completed 30 days after laboratory performance testing;			o	o	o	o							EdyyyD	475:
													EdyyyD	475[illegible]
b. 100% completed 45 days after laboratory performance testing			o	o	o	o							EdyyyD	4757
													EdyyyD	4758
.3 Update NIOSH current actions list and distribute new list to Director, DSR, NIOSH, and Regional Offices in 5 days after update notification			o	o	o	o							EdyyyD	4759
													EdyyyD	4760
													EdyyyD	4761
.4 Prepare and submit to Director, DSR, stop sale letters, users notices, or other recommendations on 100% of all NIOSH certified equipment approval violations within 20 days after violation verification.			o	o	o	o							EdyyyD	4762
													EdyyyD	4763
													EdyyyD	4764
													EdyyyD	4765
.5 Evaluate for completeness certifications and extension of certification application packages received by TCB and track 100% of active projects			o	o	o	o							EdyyyD	4766
													EdyyyD	4767
													EdyyyD	4768
a. Evaluate 75% of application packages in 20 days			o	o	o	o							EdyyyD	4769
b. Evaluate 100% of application packages in 30 days			o	o	o	o							EdyyyD	4770
.6 Computer documentation of certified equipment components (lines of data documented K=1000)			18K	36K	54K	72K							EdyyyD	4771
													EdyyyD	4772
.7 Microprocessing of engineering documents (microprocessing steps handled)			15K	30K	45K	60K							EdyyyD	4773
													EdyyyD	4774
													EdyyyD	4775

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
6. P.P.E. Class Audits - FIG - (Myers 923-7331)	81	82					D	a	a				Edyy D	4778
(VLI-mpb-857)(100/VEd-Dyy-822)													Edyyy D	4779
.1 Order equipment for audit testing													EdyyyD	4780
a. APR equipment			3	6	9	12							EdyyyD	4781
1. Routine			o	o	o	o							EdyyyD	4782
2. Audit arising from complaints			o	o	o	o							EdyyyD	4783
3. Audit arising from problems found in 1 and 2			o	o	o	o							EdyyyD	4784
b. ASR equipment			10	20	30	40							EdyyyD	4785
1. Routine			o	o	o	0							EdyyyD	4786
2. Audit arising from complaints			o	o	o	o							EdyyyD	4787
3. Audits resulting from problems found in 1 and 2			o	o	o	o							EdyyyD	4788
c. CMDPS equipment			1	2	3	3							EdyyyD	4789
1. Routine			o	o	o	o							EdyyyD	4790
2. Audit arising from complaints			o	o	o	o							EdyyyD	4791
3. Audits resulting from problems found in 1 and 2			o	o	o	o							EdyyyD	4792
.2 Dimensional analysis reports on equipment received from routine audits and/or complaints audits			15	30	45	60							EdyyyD	4793
													EdyyyD	4794
a. 75% completed 30 days after lab performance testing			11	22	33	44							EdyyyD	4795
b. 100% completed 45 days after lab performance testing			4	8	12	16							EdyyyD	4796
.3 Prepare class audit reports													EdyyyD	4797
a. Prepare 60% of reports 60 days after completion of lab analysis					o	o							EdyyyD	4798
													EdyyyD	4799
b. Prepare 100% of reports 90 days after completion of lab analysis					o	o							EdyyyD	4800
													EdyyyD	4801
													EdyyyD	4802
7. Audits of Used SCBA - FIG (Myers 923-7331)	81	82					D	b	a				EdyyyD	4805
(VLI-mpb-857) (100/VEd-Dyy-840)													EdyyyD	4806
.1 Submit RFC.			o										EdyyyD	4807
.2 Award contract					o								EdyyyD	4808
.3 Evaluation of approved configuration against actual configuration of used units "in-house"					o								EdyyyD	4809
													EdyyyD	4810
.4 Contract testing completed (1Q83)													EdyyyD	4811
.5 Submit report to Director, DSR (2Q83)													EdyyyD	4812
													EdyyyD	4813
8. Field Evaluation of Pesticide Respirators - FIG (Myers 923-7331)	81	82					D	a	a				EdeyyD	4816
(VLI-mpb-857) (100/VEd-Dey-862)													EdeyyD	4817
.1 Purchase test equipment				o									EdeyyD	4818
.2 Select survey plants and set up survey dates					o								EdeyyD	4819
.3 Conduct walk through survey						o							EdeyyD	4820
.4 Conduct and complete all field investigations						o							EdeyyD	4821
.5 Submit report to Director, DSR(2Q83)													EdeyyD	4822
													EdeyyD	4823

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000		
9. Field P.F. for Powered Respirators - FIG - (Meyers 923-7331)	81	82					D	a	a				EdyyyD	4826
(VLI-mpb-857)(100/VEd-Dyy-863)													EdyyyD	4827
.1 Purchase test equipment (4Q81)													EdyyyD	4828
.2 Identify and prioritize possible survey sites (4Q81)													EdyyyD	4829
.3 Select survey sites (4Q81)													EdyyyD	4830
.4 Conduct walk through survey (4Q81)													EdyyyD	4831
.5 Conduct field surveys (4Q81)													EdyyyD	4832
.6 Complete field surveys			o										EdyyyD	4833
.7 Analysis of field samples			o										EdyyyD	4834
.8 Interim draft report to Director, DSR				o									EdyyyD	4835
.9 Final Report to Director, DSR, and Director, NIOSH					o								EdyyyD	4836
													EdyyyD	4837
10. Part 11 - Performance Requirements Update	81	83					D	b	a				EdyyyD	4840
(Knowles 923-7335)													EdyyyD	4841
(VLI-mbp-850) (5.0/450.0/600.0) (100/VEd-Dyy-850)													EdyyyD	4842
.1 Complete first phase rewrite of "Part 11 Performance				o									EdyyyD	4843
Requirements Update" from FY81 project efforts													EdyyyD	4844
.2 Complete indepth detailed research needs scoping report					o								EdyyyD	4845
outlining in a prioritized manner the most pressing													EdyyyD	4846
research gaps and what must be done to fill those gaps													EdyyyD	4847
.3 Complete detailed research protocols for future in-house					o								EdyyyD	4848
programs as identified in scoping report													EdyyyD	4849
.4 Develop detailed research protocol for RFC and submit						o							EdyyyD	4850
to Contracts Office													EdyyyD	4851
.5 Complete project plans for FY83 research efforts						o							EdyyyD	4852
.6 Complete in-house research progress report on activities						o							EdyyyD	4853
outlined in scoping report													EdyyyD	4854
													EdyyyD	4855
11. Aerosol Air Purifying Respirator Efficiency Research	81	83					D	a	s				EdyyyD	4858
(Moyer 923-7335)													EdyyyD	4859
(3.0/200.0/290/0) (100/VEd-Dyy-864)													EdyyyD	4860
.1 Complete literature review, analysis and evaluation				o									EdyyyD	4861
.2 Complete preparation of research protocol					o								EdyyyD	4862
.3 Submit orders for all necessary equipment and supplies			o										EdyyyD	4863
.4 Peer review research protocol completed					o								EdyyyD	4864
.5 Complete first interim report of research findings						o							EdyyyD	4865
.6 Submit feasibility study for replacing existing test													EdyyyD	4866
methods with new methods in 30 CFR Part 11. (3Q83)													EdyyyD	4867
.7 Finalize development of aerosol performance and efficiency													EdyyyD	4868
model and test methods for incorporation into revised													EdyyyD	4869
30 CFR Part 11 (4Q83)													EdyyyD	4870
													EdyyyD	4871

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
12. Respirator Sorbent Efficiency	81	83					D	b	a				EdyyyD	4874
(Moyer'923-7335)													EdyyyD	4875
(VLI-mbp-817)(3.0/350.0/440.0)(100/vEd-Dyy-817													EdyyyD	4876
.1 Establish in-house laboratory testing capability contingent upon OD, NIOSH approval			o										EdyyyD	4877
													EdyyyD	4878
.2 Prepare finalized, detailed research protocol for conduct of the project phases I and II (2 milestones indicated)				o		o							EdyyyD	4879
													EdyyyD	4880
.3 Establish research protocol accomplishment schedule for phases I and II				o		o							Edyy D	4881
													EdyyyD	4882
.4 Complete final RFC and submit to Contracts Office for FY83 funding						o							EdyyyD	4883
													EdyyyD	4884
.5 Complete draft report of findings for FY82 experimental studies, submit to OD, DSR for review						o							EdyyyD	4885
													EdyyyD	4886
.6 Award contract (3Q83)													EdyyyD	4887
.7 Incorporate comments and prepare final report of findings for first year (FY82) of research project (1Q83)													EdyyyD	4888
													EdyyyD	4889
.8 Submit for review report of findings for publication (2Q83)													EdyyyD	4890
													EdyyyD	4891
13. Inhalation Toxicity Testing of DEHS and Corn Oil	81	82					D	b	a				EdyyyD	4894
(May 443-1650)													EdyyyD	4895
(VLI-mpb 852)(100/VEd-Dyy-865)													EdyyyD	4896
.1 Project start (3Q81)													EdyyyD	4897
.2 Initiate acute phase of study 4Q81)													EdyyyD	4898
.3 Completion of acute phase of study					o								EdyyyD	4899
.4 Initiation of subchronic phase of study					o								EdyyyD	4900
.5 Completion of subchronic phase of study (3Q83)													EdyyyD	4901
.6 Final report submitted to NIOSH (3Q83)													EdyyyD	4902
													EdyyyD	4903

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CONTROL SYSTEMS

The implementation of an effective hazard-prevention program in the workplace requires the development of data in many areas. The control technology program within NIOSH is attempting to document and develop effective control systems through state-of-the-art assessments and laboratory research. The production and utilization of hazardous chemicals in industry require that industry utilize techniques that control worker exposure while continuing to allow the chemicals to be used in their processes. Our goal is to seek out and document the controls' effectiveness from a total systems point of view. All aspects of the system are assessed including engineering, monitoring, work practices, and personal protective equipment.

The demonstrated effectiveness in one plant can then be used by other industries that have similar processes. An active dissemination and education program is essential to reach those professionals in training and practicing who will design and influence the purchasing of future production systems.

Division of Physical Sciences and Engineering

The DPSE program is comprised of control technology assessments and control technology research and development.

1. The development of the Control Technology Assessment concept has evolved to a point where an expanded approach involving other disciplines should be utilized to make the studies more comprehensive. Although only the "best" technology has been previously studied, "good" technology would also be documented because of the current state of the U.S. economy. These "expanded" CTAs would simultaneously establish a range of solutions with a range of costs. There are two extreme options for conducting these studies:

   - DPSE would take the lead in a NIOSH effort, working with DSHEFS and DRDS industrial hygienists operating from their own divisions. This would enable more measurements to be made and simultaneously establish worker exposures as well as a range of solutions. There is some precedent for this now in DPSE's joint effort with DSHEFS (in manufacturing of birth control pills, biotechnology, and electronics), and DRDS (coal liquefaction and gasification).

   - At the other extreme, more resources would be provided directly to the DPSE budget, and the expanded CTAs would be completely a DPSE effort.

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2. There also is a need for more documentation in other areas relating to worker protection:

   - o DPSE has begun a pilot effort with DBBS to include work practices in the inhouse DPSE CTA of plating and cleaning processes.

   - o Joint efforts with DSR also should be explored and implemented.

3. An expanding interaction must occur with the academic community which is educating the future engineers, designers, and managers of production systems. DPSE has:

   - o With DTMD, started some effort in this area with the Johns Hopkins Educational Resource Center which has developed a 1-week course for practicing engineers on industrial hygiene engineering control technology.

   - o Need for additional materials that impact on the regular academic curricula.

In DPSE there are essentially two synergistic aspects of the area of control technology research and development:

1. Monitoring--What needs to be done now is to expand monitoring of strategy techniques and evaluate contemporary instruments. Portable analytic instruments that can make in situ determinations of pollutants will be a powerful aid in field studies related to chemical dumps, toxic wastes, petrochemical industries, etc.

2. Control--Projects will be of limited scope so that they can be completed in a short time frame, utilizing technicians and co-ops to carry out the research planned by senior staff, based upon input from CTAs, HHEs, OSHA, labor, and industry. The ultimate goal is to provide the impetus which will result in incorporation of control techniques into a new process design, process machinery, and plant construction. There will be an effort to establish demonstration projects on a small scale to show both technical and financial feasibility, working with small businesses and State industrial groups.

Division of Biomedical and Behavioral Sciences

DBBS activities in control technology include: (1) toxicology studies related to the substitution of less hazardous substances for those commonly or historically used for certain operations or work

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practices, and (2) evaluation of ergonomic and human factors observed during control technology assessments. With regard to the latter activity, the best engineering control system may be ineffective in protecting the worker if it is not designed for optimum use by the worker or if the worker has not been properly informed about the use of the system.

In FY 1981 studies continued on the toxicologic assessment of coal and copper slags that are used in brasive blasting operations to replace silica sand. Also during FY 1981 three control technology assessment site visits involving electroplating operations were performed jointly with DPSE. The intent is to identify work practices and human factors considerations found to be successful in reducing workers' exposure to workplace hazards.

Division of Safety Research

The DSR program includes several projects that are aimed at identifying or evaluating methods for controlling the risks of recognized hazards. The program addresses the hazards faced by construction workers engaged in building construction, and machinists engaged in the operation of press brakes and mechanical power presses.

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES FY	NPF $1000	TF $1000		
*******CONTROL SYSTEMS*******													E	4907
													E	4908
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE													A E	4909
													A E	4910
1. Psychology in Health Risk Communication (A. Cohen, 684-8291) (VOB-nAb-268)(0.6/130.0/160.0)(.3/10/18)(100/VOB-Eyy-268)	80	84					E	c	a				AayyyE	4912
													AayyyE	4913
													AayyyE	4914
.1 Consult Information Office (1Q80)													AayyyE	4915
.2 Initiate literature review (1Q80)													AayyyE	4916
.3 Complete literature review (3Q80)													AayyyE	4917
.4 Formulate approaches for hazard communications (4Q81)													AayyyE	4918
.5 Submit progress report to Director, DBBS			o	o	o	o							AayyyE	4919
.6 Develop RFC for testing approaches			o										AayyyE	4920
.7 Hold peer review			o										AayyyE	4921
.8 Submit RFC to Director, DBBS				o									AayyyE	4922
.9 Submit RFC to OAMS				o									AayyyE	4923
.10 Award contract					o								AayyyE	4924
.11 Obtain HSRB clearance						o							AayyyE	4925
.12 Submit OMB package for clearance						o							AayyyE	4926
.13 Receive OMB clearance (2Q83)													AayyyE	4927
.14 Complete observations of effectiveness of health risk communications (4Q83) (2Q84)													AayyyE	4928
													AayyyE	4929
.15 Receive draft final contract report (2Q84)													AayyyE	4930
.16 Submit final report to Director, DBBS (4Q84)													AayyyE	4931
.17 Submit abstract to Director, NIOSH (4Q84)													AayyyE	4932
													AayyyE	4933

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
2. Fibrogenicity of Mineral Substitutes (L. Stettler, 684-8337) (VOT/g0g-383)(0.1/0.5/7.0)(100/VOT-Egm-383)	80	83					E	c	a				AdgmyE	4936
													AdgmyE	4937
													AdgmyE	4938
.1 Hazard data sheet (H.D.S.):													AdgmyE	4939
a. Develop H.D.S. (1Q80)													AdgmyE	4940
b. Submit H.D.S. to Director, DBBS (1Q80)													AdgmyE	4941
c. Submit H.D.S. to all project staff (1Q80)													AdgmyE	4942
.2 Consult Information Office (1Q80)													AdgmyE	4943
.3 Submit progress reports to Director, DBBS			o	o	o	o							AdgmyE	4944
.4 Initiate pilot study to determine maximum tolerated dose (MTD). (2Q80)													AdgmyE	4945
													AdgmyE	4946
.5 Complete MTD study (3Q80)													AdgmyE	4947
.6 Initiate fibrogenicity study (3Q80)													AdgmyE	4948
.7 Perform 6-month serial sacrifice (2Q81)													AdgmyE	4949
.8 Perform 12-month serial sacrifice (4Q81)													AdgmyE	4950
.9 Complete 18-month serial sacrifice				o									AdgmyE	4951
.10 Complete 24-month serial sacrifice						o							AdgmyE	4952
.11 Complete histologic and pathology report (2Q83)													AdgmyE	4953
.12 Submit final project report to Director, DBBS (4Q83)													AdgmyE	4954
.13 Submit abstract to Director, NIOSH (4Q83)													AdgmyE	4955
.14 Submit project records to Q. A. Unit, DBBS (4Q83)													AdgmyE	4956
													AdgmyE	4957
DIVISION OF PHYSICAL SCIENCES AND ENGINEERING													B E	4959
													B E	4960
3. Removal of Contaminating Liquids from Surfaces (1004)-- 12/31/81--$118,102--R. Hughes--Control 7/31/84 $55,288--G. Breur													B E	4961
													B E	4962
													B E	4963
													B E	4964
4. Control Technology Assessment of Chemical Process Batch Unit Operations (H. Van Waganen 684-4347) (VQC-gty-406) (1.5/5.7/44.0)(100/VQC-Ehi-406)	80	83					E	a	a				BahiyE	4966
													BahiyE	4967
													BahiyE	4968
													BahiyE	4969
.1 Award contract (4Q81) #210-80-0071													BahiyE	4970
.2 Complete preliminary surveys (6 completed 4Q81)													BahiyE	4971
.3 Complete preliminary survey reports						o							BahiyE	4972
.4 Complete in-depth survey reports (1Q83)													BahiyE	4973
.5 Complete final report (4Q83)													BahiyE	4974
													BahiyE	4975

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
5. Control Technology Assessment of Petroleum Refinery Operations (P. Froehlich 684-4347)(VQC-gty-406)(0.2/5/11)(100/VQC-Ehi-475)	81	83					E	a	a				BahiyE	4978
													BahiyE	4979
													BahiyE	4980
.1 Award contract (2Q81) #210-81-7102													BahiyE	4981
.2 Complete preliminary surveys (4 completed 4Q81)			o										BahiyE	4982
.3 Complete preliminary survey reports				o									BahiyE	4983
.4 Complete in-depth survey reports						o							BahiyE	4984
54 Complete final report (1Q83)													BahiyE	4985
													BahiyE	4986
6. Engineering Assessment of Seals and Fittings (H. Van Wagenen - 684-4347)(0.5/20/35)(0.5/25/40)(100/VQC-Ehf-472)	82	84					E	a	a				BahfyE	4989
													BahfyE	4990
													BahfyE	4991
.1 Finalize RFC and identify firm(s) for cooperative research					o								BahfyE	4992
.2 Award contract						o							BahfyE	4993
.3 Receive final report (2Q84)													BahfyE	4994
													BahfyE	4995
7. Control Technology Assessment of Routine Hazardous Waste Disposal Operations in Chemicals Manufacturing (M. Anastas - 684-4347)(VQC-gtt-417)(1.0/5/35)(100/VQC-Euh-417)	81	83					E	c	a				BauhyE	4998
													BauhyE	4999
													BauhyE	5000
													BauhyE	5001
.1 Complete preliminary survey reports				c									BauhyE	5002
.2 Complete in-depth survey reports						o							BauhyE	5003
.3 Complete final report (1Q83)													BauhyE	5004
													BauhyE	5005
8. Pilot Control Technology Assessment of Chemical Processing and Reclaiming Facilities (M. Crandall - 684-4347) (100/VQC-Euh-473)	82	82					E	c	a				BauhyE	5008
													BauhyE	5009
													BauhyE	5010
													BauhyE	5011
.1 Complete summary of literature			o										BauhyE	5012
.2 Complete survey reports					o								BauhyE	5013
.3 Submit recommendations for additional work					o								BauhyE	5014
													BauhyE	5015
9. Control Technology Assessment of Operations Employed in Oral Contraceptive Tablet Making Processes (M. Anastas - 684-4347) (VQC-gky-415)(100/VQC-Eyy-415)	81	82					E	c	a				BayyyE	5018
													BayyyE	5019
													BayyyE	5020
													BayyyE	5021
.1 Complete in-depth surveys				o									BayyyE	5022
.2 Complete in-depth survey reports					o								BayyyE	5023
.3 Complete final report						o							BayyyE	5024
													BayyyE	5025

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
10. Control Technology Assessment - Plating and Cleaning (J. Sheehy - 684-4295)VQC-gth-445)(100/VQC-Eyy-445)	80	82					E	c	a				BayyyE	5028
													BayyyE	5029
													BayyyE	5030
.1 Complete in-depth plant surveys			o										BayyyE	5031
.2 Complete final plant survey reports				o									BayyyE	5032
.3 Complete final report						o							BayyyE	5033
													BayyyE	5034
11. Control of Styrene Vapors in Fiberglass Boat Building (W. Todd - 684-4224)(VQC-ggy-414)(1.0/5/35)(100/VQC-Ehy-414)	81	83					E	c	a				BahyyE	5037
													BahyyE	5038
													BahyyE	5039
.1 Complete preliminary survey reports					o								BahyyE	5040
.2 Complete in-depth surveys						o							BahyyE	5041
.3 Complete report on plant surveys (1Q83)													BahyyE	5042
													BahyyE	5043
12. Adhesive Bonding Control Technology Assessment (V. Mortimer - 684-4224)(VQC-ggy-414)(2.0/25/85)(100/VQC-Ehy-476)	81	83					E	c	a				BahyyE	5046
													BahyyE	5047
													BahyyE	5048
.1 Complete preliminary survey reports					o								BahyyE	5049
.2 Complete in-depth surveys						o							BahyyE	5050
.3 Complete in-depth survey reports (1Q83)													BahyyE	5051
.4 Complete final report (2Q83)													BahyyE	5052
													BahyyE	5053
13. Mercury Control Technology Assessment (A. Amendola - 684-4347) (VQC-gyy-405)(100/VQC-Eyy-405)	80	82					E	a	a				BayyhE	5056
													BayyhE	5057
													BayyhE	5058
.1 Award contract (1Q81) #210-81-7107													BayyhE	5059
.2 Complete preliminary surveys				o									BayyhE	5060
.3 Complete in-depth surveys						o							BayyhE	5061
.4 Complete final report						o							BayyhE	5062
													BayyhE	5063
14. Control Technology Assessment of the Ceramic (Clay) Products Industry (R. Mahon - 684-4295)(1.0/15/50)(100/VQC-Eny-477)	82	83					E	c	a				BanykE	5066
													BanykE	5067
													BanykE	5068
.1 Submit final study plan				o									BanykE	5069
.2 Complete preliminary site surveys						o							BanykE	5070
.3 Complete recommended surveys (2Q83)													BanykE	5071
.4 Complete final report (4Q83)													BanykE	5072
													BanykE	5073
15. Control Technology Assessment Mining and Minerals Industry Processes (Lead Ore Beneficiation) (F. Godbey - 684-4442) (VQC-gmu-412)(100/VQC-Eyy-412)	81	82					E	c	d				BapgrE	5076
													BapgrE	5077
													BapgrE	5078
													BapgrE	5079
.1 Complete preliminary survey reports				o									BapgrE	5080
.2 Complete in-depth survey reports						o							BapgrE	5081
.3 Complete final report						o							BapgrE	5082
													BapgrE	5083

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000		
16. Assessment of Effective Controls - Bagging Operations	81	83					E	c	a				BayyeE	5086
(T. Cooper - 684-4442)(VQC-gtu-408)(0.3/5/15)(100/VQC-Eyy-408)													BayyeE	5087
													BayyeE	5088
.1 Complete preliminary survey reports				o									BayyeE	5089
.2 Complete in-depth survey reports (1Q83)													BayyeE	5090
.3 Complete final report (1Q83)													BayyeE	5091
													BayyeE	5092
17. Control Technology Assessment - Sampling Solids and Slurries	80	83					E	c	a				BayyeE	5095
(C. Wang - 684-4442)(VQC-gtt-417)((0.2/5/11)100/VQC-Eyy-478)													BayyeE	5096
													BayyeE	5097
.1 Complete preliminary study plan			o										BayyeE	5098
.2 Complete preliminary survey reports					o								BayyeE	5099
.3 Complete in-depth survey reports (1Q83)													BayyeE	5100
.4 Complete final report (1Q83)													BayyeE	5101
													BayyeE	5102
18. Control Technology Assessment - Solid Materials Conveying	82	83					E	c	a				BaynyE	5105
(M. Klein - 684-4295)(2.1/25/90)(100/VQC-Eyn-479)													BaynyE	5106
													BaynyE	5107
.1 Complete study plan			o										BaynyE	5108
.2 Complete preliminary survey reports						o							BaynyE	5109
.3 Complete in-depth survey reports (2Q83)													BaynyE	5110
.4 Complete final report (3Q83)													BaynyE	5111
													BaynyE	5112
19. EPA IA on Indoor Air (Electronics/Formaldehyde) (J. Gideon -	80	83					E	d	a				BahyyE	5115
684-4221)(VQC-gyy-413)(2.0/25/100)(100/VQC-Ehy-413)													BahyyE	5116
													BahyyE	5117
.1 Electronics Components Industry													BahyyE	5118
a. Complete preliminary survey reports				o									BahyyE	5119
b. Complete in-depth survey reports (1Q83)													BahyyE	5120
.2 Formaldehyde Manufacturing Industry													BahyyE	5121
a. Complete preliminary survey reports				o									BahyyE	5122
b. Complete in-depth survey reports						o							BahyyE	5123
c. Complete final report (1Q83)													BahyyE	5124
													BahyyE	5125
20. Applied Control Technology Studies (P. Caplan - 684-4442)	80	C					E	c	a				BahyyE	5128
(VQC-ghg-403)(5.4/15/170)(100/VQC-Ehy-403)													BahyyE	5129
													BahyyE	5130
.1 Participate in hazard control technology aspects of HHE and													BahyyE	5131
IWS studies			2	4	6	8							BahyyE	5132
.2 Provide written consultation to DCDSD on control technology													BahyyE	5133
related to Criteria Documents or Hazard Reviews			1	2	3	4							BahyyE	5134
.3 Work with DTMD on professional engineering education													BahyyE	5135
programs													BahyyE	5136
a. Conduct site visits to appropriate universities				1	3								BahyyE	5137
.4 Develop priority areas for FY83 programs			o										BahyyE	5138
													BahyyE	5139

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
21. Control Technology Analytical Support (G. Choudhary 684-4217) (VQK-uxx-427)(2.4/25/101)(100/VQK-Ehy-427)	82	C					E	b	a				BbhyyE	5142
													BbhyyE	5143
													BbhyyE	5144
.1 Provide analytical support for CTA of													BbhyyE	5145
a. Plating and cleaning processes			100	250	400								BbhyyE	5146
b. Styrene and Glass Fiber Boat Building			50	100	300								BbhyyE	5147
c. Hazardous waste projects				60	150								BbhyyE	5148
d. Adhesive Bonding			155	380	630	700							BbhyyE	5149
e. Process Sampling Study			75	225	300								BbhyyE	5150
f. Solid Materials Handling			100	200	300	400							BbhyyE	5151
g. Lead Beneficiation			50	150	300								BbhyyE	5152
													BbhyyE	5153
22. Deactivation of Hazardous Chemical Waste in the Work Place (S. Tucker, 684-4258)(3.0/40/130)(100/VQU-Euh-487)	82	83					E	c	a				BcuhyE	5156
													BcuhyE	5157
													BcuhyE	5158
.1 Study of procedures for deactivation and disposal of chemical waste solutions produced in DPSE laboratories													BcuhyE	5159
													BcuhyE	5160
a. Present experimental protocol for study of proposed procedures			o										BcuhyE	5161
													BcuhyE	5162
b. Complete laboratory experiments				o									BcuhyE	5163
c. Submit report to Director, DPSE						o							BcuhyE	5164
.2 Study of procedures for deactivating excess stock chemicals in DPSE laboratories													BcuhyE	5165
													BcuhyE	5166
a. Complete laboratory experiments						o							BcuhyE	5167
b. Submit report to Director, DPSE (1Q83)													BcuhyE	5168
.3 Validate three IARC methods (4Q83)													BcuhyE	5169
													BcuhyE	5170
23. Scrap Lead Reprocessing Demonstration (R. Hughes 684-4266) (VQC-geM-409)(0.3/5/18)(100/VQX-Epp-409)	81	83					E	a	a				BdpqrE	5173
													BdpqrE	5174
													BdpqrE	5175
.1 Award contract 4Q81													BdpqrE	5176
.2 Complete demonstration of four controls						o							BdpqrE	5177
.3 Complete demonstration of ten controls (3Q83)													BdpqrE	5178
.4 Transmit abstract of final report to Director, NIOSH (4Q83)													BdpqrE	5179
													BdpqrE	5180
24. Particulate Control Research (K. Crouch 684-4255) (3.1/35/130)(100/VQX-Eyy-496)	82	83					E	c	a				BdyyyE	5183
													BdyyyE	5184
													BdyyyE	5185
.1 Development of Criteria for Control of Grinding Operations													BdyyyE	5186
a. Develop control for brass stand grinding emissions						o							BdyyyE	5187
b. Develop recommendations for control of particulates generated during hand grinding of castings (2Q83)													BdyyyE	5188
													BdyyyE	5189
c. Submit final report to Director, DPSE (4Q83)													BdyyyE	5190
.2 Submit protocol for wood dust control					o								BdyyyE	5191
													BdyyyE	5192

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
25. Emerging Technologies - Lasers (K. Crouch 684-4255) (100/VQX-Eyy-500)	82	82					E	c	a				BdyypE	5195
													BdyypE	5196
													BdyypE	5197
.1 Submit PCM for FY'83 laser research program					o								BdyypE	5198
													BdyypE	5199
26. Push-Pull Ventilation Techniques (D. Huebener 684-4291) (100/VQX-Eyy-502)	82	82					E	c	a				BdhyyE	5202
													BdhyyE	5203
													BdhyyE	5204
.1 Complete SPRG review for plating tank study			o										BdhyyE	5205
.2 Complete criteria development for single-side draft hood				o									BdhyyE	5206
.3 Complete criteria development for double-side slot hood						o							BdhyyE	5207
.4 Submit PCM for FY83 and beyond research				o									BdhyyE	5208
													BdhyyE	5209
DIVISION OF RESPIRATORY DISEASE STUDIES													C E	5211
													C E	5212
27. Emission Characterization of Energy Processes (Koshut R 304 599-7361)(0.3/81.0/90.0)(0.3/96.9/107.4) (100/VCb-Eiy-154)	82	84					E	g	b				CbiyhE	5214
													CbiyhE	5215
													CbiyhE	5216
													CbiyhE	5217
.1 Modify DOE Interagency Agreement for broader source characterization studies				o									CbiyhE	5218
													CbiyhE	5219
.2 Develop protocol for component fugitive emission measurements in cooperation with DOE			o										CbiyhE	5220
													CbiyhE	5221
.3 Complete review of all available process stream contaminant composition data						o							CbiyhE	5222
													CbiyhE	5223
.4 Complete NIOSH sponsored component emission measurements (4Q83)													CbiyhE	5224
													CbiyhE	5225
.7 Submit final report and abstract to Director, NIOSH, with copy of report and abstract to DTS (4Q83)													CbiyhE	5226
													CbiyhE	5227
													CbiyhE	5228

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OTHER PERSONAL PROTECTIVE EQUIPMENT

There are a number of multifaceted approaches to injury prevention in the workplace. Included among the varied approaches are workplace design, engineering controls, behavior modification, training, and personal protective equipment. It has often been cited that, with the increasingly tightening economic conditions, the use of PPE as an alternative to more expensive engineering controls will be an option exercised by more and more employers. PPE used commonly in workplaces include respirators, head protection (hard hats), eye protection (safety glasses), face protection (face shields), foot protection (safety shoes), hand protection (protective gloves), motion restraints (safety belts), and protective clothing in various combinations. But a question remains as to how effective such devices are in providing protection. Oftentimes the worker is provided PPE which may not be designed to meet the needs of his particular exposure situation. The choice of an appropriate protective device is a complex consideration that must incorporate a multitude of factors. Factors that are of prime concern to one occupation may be of secondary concern to another occupation. Consequently, the individual choosing PPE should be fully aware of the challenges of the work environment if effective protection is to be provided.

A series of reports on the effectiveness of eye, head, and face protection was compiled by BLS. The data which described the use of PPE by workers involved in industrial accidents were part of the Work Injury Report program. The worker received a confidential survey questionnaire which requested information concerning what he was doing at the time of the accident, what PPE he was wearing, a description of the injury, and the reason he was not wearing PPE. Failure to wear eye protection equipment was attributed to the perception by the workers that the equipment was neither practical nor necessary for their type of work while others reported that such equipment was not available for their use. Similarly, of the 774 face injuries surveyed, only nine workers were wearing face shields at the time of their accidents. Of the 1,033 head injuries surveyed, 80 percent of the injured workers were not wearing head protection.

It is evident, therefore, that not only must the design of the personal protective device be engineered to provide effective protection correlated with human injury-tolerance data, but it also must be designed in such a fashion as to be acceptable to the wearer of the device in his normal work environment. The lack of such acceptability and availability can be viewed as a major contributing factor in job injuries.

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Division of Safety Research

Activities within DSR have included work to establish test criteria and procedures designed to evaluate the performance of PPE. Such test criteria were designed to ensure that certain critical parameters characterizing the device perform in a reliable manner to provide the wearer with the protection needed. Tests were conducted on a number of protective devices on the market, including firefighters' helmets, miners' safety caps, linemen's rubber insulating gloves, women's safety-toe footwear, and flexible-fitting goggles. These tests, based on the American National Standards Institute's standards, also addressed possible improvements in test systems and were published as technical reports. However, due to resource constraints within the Division, the major emphasis of the PPE program has been redirected toward respirator research and testing and certification.

In response to the national concern regarding the exposure of workers in chemical waste dump cleanup operations, the Division has proposed a program designed to evaluate chemical protective clothing. With initial emphasis on glove material, the program would establish a standard permeation test designed to evaluate the permeability of various protective clothing materials by various hazardous chemicals. Such a permeability test could then subsequently be combined with appropriate physical test methods such as abrasion, stretching, etc. to determine the relative reliability of the protective clothing material to withstand the rigors and environments of actual use and still afford protection to the wearer.

Division of Biomedical and Behavioral Sciences

DBBS research on cutaneous effects, vibration, bioacoustics, and cold stress includes evaluation of PPE. Studies planned for FY 1982 include:

1. Research in percutaneous absorption, which is expected to facilitiate early identification of cutaneous hazards and to provide support for control technologies and protective clothing.

2. Evaluation of the protection from Raynaud's disease (white-finger disease) afforded by different glove materials.

3. Evaluation of effectiveness of different types of hearing protectors, and completion of the validation of a new, inexpensive method with workplace applicability for measuring the effectiveness of hearing protection equipment.

4. Evaluation of the protective value of different clothing ensembles for workers subjected to cold stress.

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
********OTHER PERSONAL PROTECTIVE EQUIPMENT*******													G	5232
													G	5233
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE													A G	5234
													A G	5235
1. Evaluation of Earplug Effectiveness (R. Tubbs, 684-8281) (1.6/25.5/65.5)(100/VOG-Gfy-367)	82	83					G	c	a				AefyyG	5237
													AefyyG	5238
													AefyyG	5239
.1 Protocol Development and Approval													AefyyG	5240
a. Complete draft project protocol			o										AefyyG	5241
b. Converse peer review panel			o										AefyyG	5242
c. Complete final project protocol				o									AefyyG	5243
d. Receive SPRG approval				o									AefyyG	5244
e. Receive HSRB approval				o									AefyyG	5245
f. Monthly progress report, Director, DBBS			o	o	o	o							AefyyG	5246
.2 Subject Testing													AefyyG	5247
a. Install and inspect test equipment				o									AefyyG	5248
b. Locate appropriate test subjects					o								AefyyG	5249
c. Begin subject testing					o								AefyyG	5250
d. Complete subject testing (1Q83)													AefyyG	5251
.3 Data Reduction and Analysis													AefyyG	5252
a. Code and verify data for computer (2Q83)													AefyyG	5253
b. Complete statistical analysis (2Q83)													AefyyG	5254
.4 Submit publication plan (3Q83)													AefyyG	5255
.5 Submit draft for approval (3Q83)													AefyyG	5256
.6 Submit final report to Director, DBBS (4Q83)													AefyyG	5257
.7 Submit abstract to Director, DBBS (4Q83)													AefyyG	5258
.8 Submit project records to Q. A. Unit, DBBS (4Q83)													AefyyG	5259
													AefyyG	5260

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
2 Insert-Type Hearing Protectors Study (B. Lempert, 684-8281) (100/VOG-Gff-365)	81	82					G	b	a				AefffG	5263
													AefffG	5264
													AefffG	5265
.1 Contract 210-81-0031													AefffG	5266
a. Complete peer review (DSR)(1Q81)													AefffG	5267
b. Submit RFC to OAMS (1Q81)													AefffG	5268
c. Obtain HSRB approval (2Q81)													AefffG	5269
d. Award contract (210-81-3001)(2Q81)													AefffG	5270
e. Initiate field testing (2Q81)													AefffG	5271
f. Complete field testing				o									AefffG	5272
g. Submit final report to Director, DBBS and DSR					o								AefffG	5273
h. Submit abstract to Director, NIOSH					o								AefffG	5274
.2 Prepare composite report						o							AefffG	5275
.3 Submit composite report to Director, DBBS						o							AefffG	5276
.4 Prepare training module with DTMD						o							AefffG	5277
.5 Submit progress report to Director, DBBS			o	o	o	o							AefffG	5278
.6 Submit final project report to Director, DBBS						o							AefffG	5279
.7 Submit abstract to Director, NIOSH						o							AefffG	5280
.8 Submit project records to Q.A. Unit, DBBS						o							AefffG	5281
													AefffG	5282
DIVISION OF SAFETY RESEARCH													E G	5284
													E G	5285
3. Attenuation Characteristics of Hearing Protectors (895)-- 4/30/83--$29,430--D. Knowles													E G	5286
													E G	5287
													E G	5288
4. Protective Clothing Against Chemicals Evaluation Procedures (VLI-mbN-858)(5.0/300.0/450.0)(100/VEd-GhN-858)	81	C					G	g	a				EdhNyG	5290
													EdhNyG	5291
													EdhNyG	5292
.1 LANL FY81 Interagency Agreement													EdhNyG	5293
a. Submit IA to OD (2FY81)													EdhNyG	5294
b. Award of IA by OFPE (3Q81)													EdhNyG	5295
c. Review LANL's quarterly progress reports			o	o	o								EdhNyG	5296
d. Submit summary report on performance of CPC against PCB2 OD						o							EdhNyG	5297
													EdhNyG	5298
e. Receive and review final report from LANL (1Q83)													EdhNyG	5299
f. Submit abstract to O/D (1Q83)													EdhNyG	5300
g. Submit final report to DTS (1Q83)													EdhNyG	5301
.2 Participate in ASTM F23 committee round robin validation testing of proposed standard product evaluation methods			o	o	o	o							EdhNyG	5302
													EdhNyG	5303
.3 Answer inquiries from public and regional representatives concerning CPC			10	20	30	40							EdhNyG	5304
													EdhNyG	5305
a. Respond to 90% within 2 working days			o	o	o	o							EdhNyG	5306
b. Respond to 100% within 10 working days			o	o	o	o							EdhNyG	5307
													EdhNyG	5308

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
5. Protective Equipment Research (D. Knowles 923-7335) (4.)/250.0/370.0) (100/VEd-Gyy-818)	82	83					G	a	a				EdyyyG	5311
													EdyyyG	5312
.1 Complete procurement and installation of personal protective equipment laboratory test equipment					o								EdyyyG	5313
													EdyyyG	5314
.2 Complete progress report on contracts and grants activities			o	o	o	o							EdyyyG	5315
													EdyyyG	5316
.3 Complete background research for preparation of a NIOSH PPE research paper			o										EdyyyG	5317
													EdyyyG	5318
.4 Prepare final report of recommendations for PPE research needs					o								EdyyyG	5319
													EdyyyG	5320
.5 Complete data acquisition system setup, computer interface and computer programming for PPE equipment research test systems						o							EdyyyG	5321
													EdyyyG	5322
													EdyyyG	5323
.6 Complete proposed PPE research project protocols					o								EdyyyG	5324
.7 Complete proposed PPE research project plans						o							EdyyyG	5325
													EdyyyG	5326

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SAMPLING/ANALYSIS

This program provides sampling consultation and analytical support to field research activities within NIOSH. Information is provided for the data base used by industrial hygienists and engineers to make decisions on hazard potential of workplace exposure, the association of exposure with disease, and the effectiveness of engineering control systems.

Division of Biomedical and Behavioral Sciences

DBBS provides clinical laboratory analyses to support field studies and all the DBBS inhouse research programs. This activity involves the analysis of blood, urine, and breath samples for the purpose of characterizing and quantitating chemical exposures of persons or laboratory animals examined in field or laboratory studies.

Division of Physical Sciences and Engineering

DPSE's general direction of the analytical chemistry research and support effort should remain the same. However, the following change is suggested: All NIOSH calibration and maintenance activities should be consolidated with DPSE for better staff utilization and better inventory and maintenance control. A management system should be established which will enable better quality control of field instruments, reduce spare-parts inventory by standardizing equipment, and allow periodic recall of equipment to ensure that it is in proper working order. While this is being done, the determination to contract maintenance and calibration should be delayed until DSHEFS moves to Ridge.

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
********SAMPLING/ANALYSIS*******													N	5330
													N	5331
DIVISION OF PHYSICAL SCIENCES AND ENGINEERING													B N	5332
													B N	5333
1. Cancer Research Analytical Support (B. Belinky 684-4220) (VQK-ubc-423)(2.0/50/110)(100/VQK-Nhy-423)	82	C					N	b	a				BbhyyN	5335
													BbhyyN	5336
													BbhyyN	5337
.1 Provide analyses in support of Institute Cancer Program (DSHEFS)			1.1k	2.3k	3.4k	4.2k							BbhyyN	5338
													BbhyyN	5339
.2 Perform complete chemical characterization of acid treated coal dusts (DRDS Mutagenicity Studies for Stomach Carcinogenesis)					2	4							BbhyyN	5340
													BbhyyN	5341
													BbhyyN	5342
.3 Provide an average turnaround time of 35 working days for samples from cancer research			35	35	35	35							BbhyyN	5343
													BbhyyN	5344
													BbhyyN	5345
2. Feasibility Study of a Mobile Analytical Laboratory for Field Support (G. Choudhary 684-4215) (100/VQK-Nuh-482)	82	82					N	a	a				BbuhyN	5348
													BbuhyN	5349
													BbuhyN	5350
													BbuhyN	5351
													BbuhyN	5352
.1 Procure mobile laboratory contract													BbuhyN	5353
a. Submit RFC to OAMS			o										BbuhyN	5354
b. Award Contract				o									BbuhyN	5355
.2 Accompany the contractor on four surveys					2	4							BbuhyN	5356
.3 Submit final report to Directors, DPSE, DSHEFS, DRDS						o							BbuhyN	5357
													BbuhyN	5358
3. Priority Analytical Support (C. Geraci 684-4231) (0.5/300/320)(0.5/300/320)(100/VQK-Nhy-483)	82	84					N	a	a				BbhyyN	5361
													BbhyyN	5362
													BbhyyN	5363
.1 Procure priority analytical support contract													BbhyyN	5364
a. Submit RFC to OAMS			o										BbhyyN	5365
b. Award Contract				o									BbhyyN	5366
.2 Conduct Award Fee meeting for priority analytical support contract						o							BbhyyN	5367
													BbhyyN	5368
													BbhyyN	5369
4. Applied Analytical Support Methodology and Investigations (J. Palassis 684-4220/C. Neumeister 684-4215)(VQK-iXX-424) (VQK-iXX-429)(4.0/100/214)(100/VQK-Nhn-424)(100/VQK-Nhy-428)	82	C					N	c	a				BbhymN	5372
													BbhymN	5373
													BbhymN	5374
													BbhymN	5375
.1 Characterize 20 common minerals			5	10	15	20							BbhymN	5376
.2 Complete a minerals reference manual						o							BbhymN	5377
.3 Analyze silica samples from collaborative test			24	48									BbhymN	5378
.4 Develop method for four PNA's				4									BbhymN	5379
.5 Develop unanticipated analytical methods			1			2							BbhymN	5380
													BbhymN	5381

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
5. Mining Analytical Support - (M. Bolyard 684-4217) (VQK-upd-426)(3.3/125/250)(100/VQK-Nin-426)	82	C					N	b	a				BbinyN	5364
													BbinyN	5385
													BbinyN	5386
													BbinyN	5387
.1 Analyze samples from coal dust/diesel fuel inhalation study (DBBS)			120	200	320	400							BbinyN	5388
.2 Provide analytical support to DRDS			1.3k	2.8k	4.0k	5.2k							BbinyN	5389
.3 Provide analytical support to OECSP's Occupational Lung Disease project			12	24	36	50							BbinyN	5390
													BbinyN	5391
.4 Provide analytical support to DSR													BbinyN	5392
a. Air purifying respirators			400	800	1.2k	1.5k							BbinyN	5393
b. Quick response field investigations			50	125	175	250							BbinyN	5394
.5 Provide support to DSHEFS' Petroleum Refinery Turnaround			350			550							BbinyN	5395
													BbinyN	5396
.6 Procure Specialized Inorganic Measurement Contract													BbinyN	5397
a. Submit RFC to OAMS					o								BbinyN	5398
b. Award Contract (1Q83)													BbinyN	5399
													BbinyN	5400
6. Measurement Support Services - (D. Dollberg 684-4217) (VQK-uXX-422)(2.6/2000/2065)(2.6/2000/2065)(100/VQK-Nyy-422)	8[illegible]	84					N	b	a				BbyyyN	5403
													BbyyyN	5404
													BbyyyN	5405
													BbyyyN	5406
.1 Coordinate analytical requests from Divisions/Offices and Regions			108	213	311	425							BbyyyN	5407
.2 Maintain an average turnaround time of 10 working days for routine (contractor) samples			10	10	10	10							BbyyyN	5408
													BbyyyN	5409
.3 Maintain an average residence time of 35 days for routine (contractor) samples			35	35	35	35							BbyyyN	5410
													BbyyyN	5411
.4 Conduct award fee determination for Comprehensive Analytical Services Contract (210-81-7111DB)				o		o							BbyyyN	5412
													BbyyyN	5413
													BbyyyN	5414
.5 Conduct weekly analytical support information exchange meetings with HETAB/IWSB/ECTB			10	20	30	40							BbyyyN	5415
.6 Update DFSE Laboratory Management System (LMS). (Joint effort with MRB).													BbyyyN	5416
													BbyyyN	5417
a. Develop microfiche capability for archiving analytical reports (Data transfer from Wang--PCC)				o									BbyyyN	5418
													BbyyyN	5419
b. Interface Wang system with PCC for improved data transmission to LMS						o							BbyyyN	5420
													BbyyyN	5421
c. Develop data base for cost analysis of analytical services						o							BbyyyN	5422
													BbyyyN	5423
.7 Implement year 2 of CACS contract				o									BbyyyN	5424
													BbyyyN	5425

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
7. Quality Assurance - Internal (D. Smith 684-4217) (VQK-uXX-420)(1.0/35/70)(100/VQK-Nhy-420)	82	C					N	c	a				BbhyyN	5428
													BbhyyN	5429
													BbhyyN	5430
.1 Analyze PAT samples			20	40	60	80							BbhyyN	5431
.2 Monitor analytical proficiency by audit samples			32	64	96	128							BbhyyN	5432
.3 Submit quarterly report to Director DPSE			o	o	o	o							BbhyyN	5433
.4 Update AIHA accreditation					o								BbhyyN	5434
													BbhyyN	5435
8. Research Analytical-Chemical Support for the NIOSH-EPA Diesel Exhaust/Coal Dust Animal Exposure Studies (R. Glaser, 684-4259/R. Lunsford, 684-4258)(VQU-ipB-440) (VQU-ipB-442)(1.0/15/45)(100/VQU-Nmi-440)(100/VQU-Nmi-442)	80	83					N	c	a				BcmiyN	5438
													BcmiyN	5439
													BcmiyN	5440
													BcmiyN	5441
													BcmiyN	5442
.1 Analyze samples from exposure chambers			70	140	210	280							BcmiyN	5443
.2 Submit report on characterization of vapor contaminants						o							BcmiyN	5444
.3 Submit report on characterization of organic-extractable portion of diesel particulate						o							BcmiyN	5445
													BcmiyN	5446
.4 Complete monitoring of exposure chambers (1Q83)													BcmiyN	5447
.5 Submit report on monitoring of exposure chambers to study director (2Q83)													BcmiyN	5448
													BcmiyN	5449
													BcmiyN	5450
9. Comprehensive Laboratory Data Management (M. Abell, 684-4272)(100/VQU-Nyy-490)	82	82					N	c	a				BcyyyN	5453
													BcyyyN	5454
													BcyyyN	5455
.1 Requisition upgrade for data system			o										BcyyyN	5456
.2 Complete software structure design				o									BcyyyN	5457
.3 Complete training of chemists						o							BcyyyN	5458
.4 Submit final report to Director, DPSE						o							BcyyyN	5459
													BcyyyN	5460
10. Characterization and Analysis of PNA's (G. Breuer 684-4430) (VQX-iBp-457)(100/VQX-Niy-457)	81	82					N	c	a				BdiymN	5463
													BdiymN	5464
													BdiymN	5465
.1 Analyze PNA's from DBBS animal exposure study			24	60	84	108							BdiymN	5466
.2 Develop model PNA sampler													BdiymN	5467
a. Complete vapor pressure measurements of fluoranthene				o									BdiymN	5468
b. Submit final report to Director, DPSE						o							BdiymN	5469
													BdiymN	5470

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
11. Quality Assurance (P. Schlecht 684-4266) (VQX-UNy-458)(3.3/300/474)(100/VQX-Xyy-458)	82	C					N	g	a				BdyyyN	5473
													BdyyyN	5474
													BdyyyN	5475
.1 Site visit Government Laboratories					2								BdyyyN	5476
.2 Position paper to Director, DPSE. Int'l co-operation for PAT and alternative funding options					o								BdyyyN	5477
													BdyyyN	5478
.3 Provide PAT reference samples			10k	20k	30k	40k							BdyyyN	5479
.4 Evaluate 335 industrial hygiene laboratories			305	315	325	335							BdyyyN	5480
.5 Award PAT sample production contract				o									BdyyyN	5481
.6 Submit RFC to Director, DPSE for calendar year 1984						o							BdyyyN	5482
													BdyyyN	5483
12. Maintenance and Calibration Laboratory (P. Schlecht 684-4266) (VQX-uth-459)(2.7/55/140)(100/VQX-Nyy-459)	81	C					N	c	a				BdyyyN	5486
													BdyyyN	5487
													BdyyyN	5488
.1 Industrial hygiene instruments repaired			150	300	450	550							BdyyyN	5489
.2 Industrial hygiene instruments calibrated			125	250	375	450							BdyyyN	5490
.3 Upgrade calibration systems to improve calibration accuracy and reliability													BdyyyN	5491
													BdyyyN	5492
a. Gas systems			o										BdyyyN	5493
b. Sound systems				o									BdyyyN	5494
.4 Institute a periodic calibration/maintenance system for DPSE field equipment						o							BdyyyN	5495
													BdyyyN	5496
.5 Build auto cycler/charger for Ni-Cd battery packs to improve reliability by reducing battery "memory"				o									BdyyyN	5497
													BdyyyN	5498
													BdyyyN	5499
DIVISION OF RESPIRATORY DISEASE STUDIES													C N	5501
													C N	5502
13. Implementation of Image Analysis of Chest X-Rays (Hankinson J 304-599-7755)(100/VCc-Nmm-218)	82	82					N	c	b				CcmmyN	5504
													CcmmyN	5505
													CcmmyN	5506
.1 Complete final report on research study			o										CcmmyN	5507
.2 Complete optimation of system software				o									CcmmyN	5508
.3 Complete development of system implementation evaluation protocol				o									CcmmyN	5509
													CcmmyN	5510
.4 Begin evaluation of system with sample of film received by NIOSH				o									CcmmyN	5511
				o									CcmmyN	5512
.5 Complete report on evaluation of system using subset of films received by NIOSH						o							CcmmyN	5513
													CcmmyN	5514
													CcmmyN	5515

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INSTRUMENT/METHODS DEVELOPMENT

Monitoring of the workplace environment represents one of the fundamental principles in the conduct of a successful preventive health program in the workplace. Of the thousands of chemicals being used by industry only 25 percent have established sampling and analytical methods that are validated at the recognized safe occupational exposure level. Now technology continues to be used to develop new devices and techniques that need to be investigated and evaluated before they are introduced into the industrial hygiene community. This program conducts research to develop new sampling and analytical methods as well as direct reading instruments for use in measuring potential contaminants in the workplace. This research has no direct role in intervention, but results in a tool that can be used by others to initiate intervention.

Division of Biomedical and Behavioral Sciences

DBBS applies toxicokinetics to develop toxicologic methods for evaluating individual worker exposures. Biological monitoring methods are developed at the request of other NIOSH divisions in support of field research studies, as well as for DBBS research investigations. In FY 1981 methods were developed for a number of organic compounds, including aromatic amines, organic acids, and metabolites of styrene and MOCA in urine. Methods also have been developed for organic compounds such as pentachlorophenol in plasma or blood. Similar efforts will continue in FY 1982.

Instruments are developed as needed for measurement of the physiological effects of work conditions or for measuring the exposure condition itself. In FY 1981 instruments were designed and patented to measure the loss of fingertip sensitivity in workers with vibration disease.

Division of Physical Sciences and Engineering

DPSE develops and validates sampling and analytic methods in support of NIOSH field studies and in response to requests from other agencies. DPSE proposes to expand monitoring strategy techniques and evaluate contemporary instruments with NIOSH base funds. Portable analytical instruments that can make in situ determinations of pollutants will be a powerful aid in field studies related to chemical dumps, toxic wastes, petrochemical industries, etc.

Because of the ever-increasing recognition of the complexity of exposure and the need for more detailed data, the method-development aspects of our work must be emphasized. The advances in passive dosimetry and sophisticated electronic equipment require that we keep pace with the state of the art.

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Division of Respiratory Disease Studies

Current techniques for measuring respiratory mechanics require considerable subject cooperation and effort and are insensitive to early changes, or require complex techniques and equipment and have large variability. DRDS will evaluate the technique of measuring pulmonary mechanics parameters using forced random noise oscillations for the potential use of this new technique in the investigation of occupational lung diseases, particularly in workers with industrial bronchitis. Potential advantages of this technique include the portability and simplicity of the equipment, the short duration of the test (about 20 seconds), and the requirement of less subject cooperation.

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
********INSTRUMENT/METHODS DEVELOPMENT********													U	5519
													U	5520
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE													A U	5521
													A U	5522
1. Emergency Toxicological Assessment (W. Moorman, 684-8275) (1.5/12.0/55.0)(100/VOO-Uyy-314)	82	83					U	c	a				AcyyyU	5524
													AcyyyU	5525
													AcyyyU	5526
.1 Conduct peer review			o										AcyyyU	5527
.2 Submit progress report to Director, DBBS			o	o	o	o							AcyyyU	5528
.3 Submit Hazard Data Sheets to O.D., DBBS				o									AcyyyU	5529
.4 Initiate animal exposures				o									AcyyyU	5530
.5 Complete animal exposures (1Q83)													AcyyyU	5531
.6 Complete pathology evaluations (2Q83)													AcyyyU	5532
.7 Submit final report to Director, DBBS (3Q83)													AcyyyU	5533
.8 Submit abstract to Director, NIOSH (3Q83)													AcyyyU	5534
.9 Submit project records to Q.A. Unit, DBBS (3Q83)													AcyyyU	5535
													AcyyyU	5536
2. Clinical-Biochemical Support Service (L. Lowry, 684-8338) (100/VOT-Uyy-389)	82	C					U	c	a				AdyyyU	5539
													AdyyyU	5540
													AdyyyU	5541
.1 Complete standard operating procedures for commonly used methods			o										AdyyyU	5542
													AdyyyU	5543
.2 Complete analyses:													AdyyyU	5544
a. Per quarter, 85% of DBBS in-house research samples from experimental animals (approx. 1275/Q)			o	o	o	o							AdyyyU	5545
													AdyyyU	5546
b. Per quarter, 80% of DBBS in-house research samples from human subjects (approx. 160/Q)			o	o	o	o							AdyyyU	5547
													AdyyyU	5548
c. Per quarter, 80% of samples from human field research studies (approx. 160/Q)			o	o	o	o							AdyyyU	5549
													AdyyyU	5550
.3 Perform radioisotope monitoring, research support and radioimmunoassay support services													AdyyyU	5551
													AdyyyU	5552
a. Monitoring (safety)			o	o	o	o							AdyyyU	5553
b. Research support.			o	o	o	o							AdyyyU	5554
c. Radioimmunoassay			o	o	o	o							AdyyyU	5555
.4 Develop biological monitoring methods as requested by NIOSH research divisions													AdyyyU	5556
													AdyyyU	5557
a. Glycol ether urine metabolites			o										AdyyyU	5558
b. Other methods as required				o	o	o							AdyyyU	5559
c. Submit developed methods for publication					o								AdyyyU	5560
.5 Provide professional consultation			o	o	o	o							AdyyyU	5561
.6 Submit progress report to Director, DBBS			o	o	o	o							AdyyyU	5562
.7 Submit final project report to Director, DBBS						o							AdyyyU	5563
.8 Submit abstract to Director, NIOSH						o							AdyyyU	5564
													AdyyyU	5565

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
DIVISION OF PHYSICAL SCIENCES AND ENGINEERING													B U	5568
													B U	5569
3. Monitoring Methods for Aldehydes (E. Kennedy 684-4259)	82	83					U	c	a				BcyuiU	5570
(.3/5/15)(100/VQU-Uyu-484)													BcyuiU	5571
													BcyuiU	5572
.1 Complete stability and capacity tests				o									BcyuiU	5573
.2 Complete evaluation of method						o							BcyuiU	5574
.3 Submit method to editor, "NIOSH Manual of Analytical Methods" (1Q83)													BcyuiU	5575
													BcyuiU	5576
													BcyuiU	5577
4. Inorganic Chemical Speciation (T. Carsey, 684-4272)	82	82					U	c	a				BcpNyU	5580
(100/VQU-UpN-489)													BcpNyU	5581
													BcpNyU	5582
.1 PbO/PbS speciation													BcpNyU	5583
a. Complete method validation report					o								BcpNyU	5584
b. Submit final report to Director, DPSE						o							BcpNyU	5585
.2 Vanadium compound chemical speciation													BcpNyU	5586
a. Complete generation and recovery report					o								BcpNyU	5587
b. Submit final report to Director, DPSE						o							BcpNyU	5588
.3 Copper fume/dust speciation													BcpNyU	5589
a. Complete set-up of sample generation system				o									BcpNyU	5590
b. Complete analytical procedure					o								BcpNyU	5591
c. Submit final report to Director, DPSE						o							BcpNyU	5592
													BcpNyU	5593
5. Inorganic Methods Development (D. Taylor, 684-4271)	79	82					U	b	a				BcNeyU	5596
(VQU-iNt-433)(100/VQU-UNe-433)													BcNeyU	5597
													BcNeyU	5598
.1 Sampling and analytical method for determination of organic tin compounds (210-80-0066)													BcNeyU	5599
													BcNeyU	5600
a. Submit final report to Director, NIOSH				o									BcNeyU	5601
.2 Development of sampling and analytical methods for chlorine, chlorine dioxide, and bromine (#210-80-0067)													BcNeyU	5602
													BcNeyU	5603
a. Submit final report to Director, NIOSH						o							BcNeyU	5604
.3 Submit camera copy to printing management to publish Volume 8 "NIOSH Manual of Analytical Methods"						o							BcNeyU	5605
													BcNeyU	5606
													BcNeyU	5607

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000		
6. Silica (XRD), BOM Silica (IR) and Asbestos Analytical Methods (M. Abell, 684-4272)(VQU-iNp-495)(VQU-iNp-429)(100/VQU-Unk-495) (100/VQU-Unm-429)	79	82					U	b	a				BcnkmU	5610
													BcnkmU	5611
													BcnkmU	5612
													BcnkmU	5613
.1 Collaborative test of NIOSH silica (XRD), BOM silica (IR) methods													BcnkmU	5614
													BcnkmU	5615
a. First round samples analyzed by selected laboratories			o										BcnkmU	5616
b. Second round of analyses by collaborating laboratories complete				o									BcnkmU	5617
													BcnkmU	5618
c. Draft final report received from contractor					o								BcnkmU	5619
d. Final report submitted to Director, NIOSH						o							BcnkmU	5620
.2 Evaluation of automatic asbestos analyzer													BcnkmU	5621
a. Establish protocol for statistical comparison			o										BcnkmU	5622
b. Complete testing of instruments					o								BcnkmU	5623
c. Submit method to "NIOSH Manual of Analytical Methods"						o							BcnkmU	5624
													BcnkmU	5625
7. Diffusive Sampling Methods Development (R. Hull 684-4273) (VQU-iNt-434)(2.0/15/75)(100/VQU-UNy-434)	81	83					U	c	a				BcNyiU	5628
													BcNyiU	5629
													BcNyiU	5630
.1 Establish performance specifications for diffusional samplers				o									BcNyiU	5631
													BcNyiU	5632
.2 Complete lab/field evaluation for sulfur dioxide samplers (1Q83)													BcNyiU	5633
													BcNyiU	5634
.3 Complete lab evaluation for ammonia (3Q83)													BcNyiU	5635
.4 Submit final report to Director, DPSE (4Q83)													BcNyiU	5636
													BcNyiU	5637
8. Multielement Analysis of Bulk Materials (D. Sweet, 684-4265)(100/VQU-Upr-492)	82	82					U	c	a				BcpryU	5640
													BcpryU	5641
													BcpryU	5642
.1 Complete evaluation of ICP-AES sensitivity				o									BcpryU	5643
.2 Complete evaluation of tissue processing techniques					o								BcpryU	5644
.3 Submit final report to Director, DPSE						o							BcpryU	5645
													BcpryU	5646
9. Aerosol Monitoring Development (P Baron 684-4381) (VQX-hgp-454)(100/VQX-Ugy-454)	77	82					U	g	a				BdgymU	5649
													BdgymU	5650
													BdgymU	5651
.1 Complete protocol for equivalence of asbestos methods (joint with MRB)				o									BdgymU	5652
													BdgymU	5653
.2 Complete report on Magiscan (M) and M68 Fiber Counter (F)					M	F							BdgymU	5654
.3 Receive personal dust exposure monitoring prototypes from BOM IAA				1		2							BdgymU	5655
													BdgymU	5656
.4 Complete report on Fibrous Aerosol Monitor						o							BdgymU	5657
.5 Complete report on evaluation of Portable XRF Analyzer developed under DOE IAA						o							BdgymU	5658
													BdgymU	5659
													BdgymU	5660

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $100C	RESOURCES TF $1000		
10. Develop Certification Criteria for Mine Dust Samplers	79	82					U	b	b				BdNmyU	5663
(J. Bowman 684-4430)(VQX-gNp-436)(100/VQX-UNm-436)													BdNmyU	5664
													BdNmyU	5665
.1 Validation of Certification Tests													BdNmyU	5666
a. Transmit samplers to DSR for collaborative testing			o										BdNmyU	5667
b. Analyze results of DSR collaborative test						o							BdNmyU	5668
.2 Characterize Pump Fluctuations on Sampler Performance													BdNmyU	5669
a. Measure flow patterns of three (3) pump brands					o								BdNmyU	5670
b. Transmit recommendations to Director, DPSE						o							BdNmyU	5671
													BdNmyU	5672
11. Monitoring and Sampling Strategies for Coal Mine Dust	81	82					U	c	a				BdNmmU	5675
(J. Bowman 684-4430)(VQX-hNp-450)(100/VQX-UNm-450)													BdNmmU	5676
													BdNmmU	5677
.1 Develop Sampling Strategies													BdNmmU	5678
a. Present paper on "Sampling Strategies for Coal Mine Dust" at Int'l Symposium on Aerosols			o										BdNmmU	5679
													BdNmmU	5680
b. Recommend new sampling strategies to Director, NIOSH for transmission to MSHA						o							BdNmmU	5681
													BdNmmU	5682
.2 Transmit recommendations for worker participation policies and research to Director, NIOSH				o									BdNmmU	5683
													BdNmmU	5684
													BdNmmU	5685

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DISSEMINATE OCCUPATIONAL SAFETY AND HEALTH FINDINGS AND RECOMMENDATIONS

NIOSH's goal, to disseminate findings and recommendations on occupational safety and health problems, is NIOSH's process to develop scientific policy for preventing occupational hazards. NIOSH scientists disseminate findings by recommending governmental actions (recommend standards), or informing the public of identified problems and their solutions (research reports), or providing benefits (health hazard evaluations). Transferring information into private and public organizations through education, conferences, and joint action (governmental, management, and labor) is an integral link in the dissemination process so as to ensure prevention of identified problems on a much broader front than NIOSH has resources to accomplish. The following long-range objectives for the Nation are considered under this goal:

1. By 1985, 50 percent of all employers with more than 500 employees should have an approved plan of hazard control for all new processes, new equipment, and new installations. (Baseline data unavailable.)

2. By 1990, all employers with more than 500 employees should have an approved plan of hazard control for all new processes, new equipment, and new installations. (Baseline data unavailable.)

3. By 1985, workers should be routinely informed of lifestyle behaviors and health factors that interact with factors in the work environment to increase risks of occupational illness and injuries. (Baseline data unavailable.)

4. By 1985, all workers should receive routine notification in a timely manner of all health examinations or personal exposure measurements taken on work environments directly related to them. (Baseline data unavailable.)

5. By 1990, at least 25 percent of workers should be able, prior to employment, to state the nature of their occupational health and safety risks and their potential consequences, as well as to be informed of changes in these risks while employed. (In 1979, an estimated 5 percent of workers were fully informed.)

6. By 1990, all industrial managers should be fully informed about the importance of and methods for controlling human exposure to the important toxic agents in their work environments. (Baseline data unavailable.)

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7. By 1990, at least 70 percent of primary health care providers should routinely elicit occupational health exposures as part of a patient's history and should know how to interpret the information to patients in an understandable manner. (Baseline data unavailable.)

8. By 1990, at least 70 percent of all graduate engineers should be skilled in the design of plants and processes that incorporate occupational safety and health control technologies. (Baseline data unavailable.)

9. By 1990, generic standards and other forms of technology transfer should be established, where possible, for standardized employer attention to such major common problems as chronic lung hazards, neurological hazards, carcinogenic hazards, mutagenic hazards, and teratogenic hazards, and medical monitoring requirements.

And the following FY 1982 objectives requested by DOL's NIOSH Planning Group also are considered under this goal:

First-Order Priority

1. Provide, to OSHA, information to support the issuance of standards for repetitive-motion injuries.

2. Initiate generic criteria document development, for OSHA, in high-priority industries such as pharmaceuticals (Standard Industrial Classification 283), paper (SIC 26), photo processing (SIC 7395), arts and graphics (SIC 7333), printing (SIC 27), petrochemicals (refining - SIC 2911), and laboratories.

3. Provide, to ESA, criteria for setting standards for workers' compensation on the causation and diagnosis of significant occupational diseases such as asbestosis, bysinosis, silicosis, beryllium, cadmium, and arsenic.

Second-Order Priority

4. Initiate or revise and update, for OSHA, substance-specific criteria documents on n-hexane, chlorine, formaldehyde, perchlorethylene, aromatic amines, chlorinated napthalenes, and chlorinated paraffins.

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INFORMATION DISSEMINATION/DOCUMENT DEVELOPMENT

This is a continuing program area for NIOSH, and all the offices/divisions are involved. It is necessitated by the Institute's statutory mandates to conduct research, evaluate occupational hazards, and develop criteria that can serve as a basis for OSHA's and MSHA's regulatory activities. Inherent in these functions is the need to disseminate findings, conclusions, and recommendations. With the reduction in regulatory activities by DOL, improvement in the general state of OSH practice is, to a great extent, dependent upon voluntary action, which in turn is fostered by the availability of scientifically credible information and recommendations. These need to be made available to workers directly and to others who have responsibilities for improving workplace safety and health. Projects in this program area will focus on (1) ensuring scientific and technical quality, (2) improving methods for setting priorities, (3) expanding the audience by diversifying the types and formats of informational products, and (4) developing more efficient dissemination strategies. The results of the various Institute research efforts, from all the research divisions, are made available to the general and professional publics through publication in appropriate professional journals and government reports, and in public presentations. These output documents also include the reports resulting from the HHE programs maintained by both DSHEFS and DRDS.

In FY 1982 (and subsequent years), the DSHEFS dissemination program should continue at about the same level of output or increase slightly. In addition, beginning in FY 1982, DSHEFS will be publishing a new series of Surveillance Reports containing information on high-risk industries and occupations, four to six of which will be published each year. Each will be directed to a specific target audience (government, industry, labor, academic decision makers) depending on the nature of the hazards/health effects identified.

Division of Standards Development and Technology Transfer

In performing its standards development and technology transfer functions, DSDTT touches upon most of the Institute's program areas. Documents developed by the Division incorporate assessments of occupational hazard by performing literature research in the program areas of physical agents, injury/trauma, cancer, reproductive hazards, neurotoxic effects, and disorders of all the major body systems. Recommendations for the control of these occupational hazards require literature research and assessments of control systems, respirators, and other personal protective equipment. DSDTT contributes to surveillance activities through its project which provides response to external requests. It also contributes to work force development by training ERC personnel in computer data-base searching techniques and by providing technical assistance and publications support.

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DSDTT will maintain the Institute's information acquisition and storage systems, including the computer data bases and the libraries. Information will be disseminated through publications (e.g., criteria documents, technical reports, HHE summaries and reports), exhibits, and direct responses to requests for technical information and computer searches. Planned changes in specific services include the following:

1. The RTECS Editorial Review Board will suggest new formats so that RTECS can be used by a wider audience.

2. The Toxic Substance List for Mines will be integrated into the RTECS activity.

3. Wider accessibility to NIOSHTIC will be encouraged through licenses with data-base vendors via the National Technical Information Service, U.S. Department of Commerce.

4. A unified procurement policy for all libraries will be developed.

5. Information dissemination strategies will be reviewed to achieve greater efficiencies.

DSDTT proposes to improve development of documents by a combination of organizational and programmatic changes:

1. DSDTT will merge all document production under one branch and simultaneously create sections of the branch in Morgantown and Cincinnati. The Morgantown section will emphasize documents relating to safety and mining. The trend toward diversification of documents would be maintained and none of these documents would conform to a rigid format formerly employed in the production of criteria documents. A primary output of the Division will be criteria documents that are comprehensive assessments of occupational hazards with recommended methods for control. These documents will be usable by OSHA and MSHA for regulatory activities and by the workers and safety and health professionals who have responsibilities involving workplace hazard control. The Division also will produce other types of publications and reports that convey important scientific and technical information in formats designed specifically for an intended audience.

2. The Priorities and Research Analysis Branch will take on significantly expanded activities. In addition to recommending priorities for document development, it will make recommendations for Institute research where reserach gaps are identified and explore new programs in the area of emerging technologies. It also will add quantitative risk assessment to its research analysis function.

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Division of Surveillance, Hazard Evaluations, and Field Studies

In FY 1981 DSHEFS undertook a variety of efforts to actively disseminate the results of its field investigations to professionals in the OSH field and to appropriate employers and employees. Such efforts included (1) submission of over 300 reports on completed industrial hygiene and medical studies (i.e., individual plant HHE and industrywide study reports) to NTIS; (2) publication of four NIOSH technical reports, with three in press; (3) publication of 40 articles in technical journals, with 40 in press; (4) publication of 10 articles in CDC's MMWR; (5) publication of two HHE Program Summaries (summarizing the results of 66 recently completed HHEs); (6) publication of two articles in industry/labor trade journals describing hazards found and means for reducing the hazards; (7) providing 180 reports to requesters of information regarding potentially hazardous industries or agents identified in NOHS-I; and (8) giving 60 presentations pertaining to the results of DSHEFS studies before technical, academic, and professional groups.

Division of Safety Research

The DSR activities in comprehensive safety recommendation documents will be changed to keep abreast of current research demands. Documents currently being developed will provide the best available technology for voluntary efforts to minimize the risk of injuries in the workplace.

DSR plans to take computer-stored information on worker compensation injuries, analyze it, and package it into reports that will be meaningful for public health officials, researchers, professional associations, and industry/occupation interest groups. DSR, in conjunction with DSDTT, also plans to publish comprehensive recommendations for the control of hazards in industrial processes.

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
*******INFORMATION DISSEMINATION/DOCUMENT DEVELOPMENT*******													H	5689
													H	5690
DIVISION OF SURVEILLANCE, HAZARD EVALUATIONS AND FIELD STUDIES													D H	5691
													D H	5692
1. Information Dissemination Models for High Risk Groups	81	82					H	c	a				DcyyyH	5694
(Dave Sundin 513-684-2706)													DcyyyH	5695
(100/VMO-Hyy-619)													DcyyyH	5696
													DcyyyH	5697
A. Complete implementation of strategy (2Q81).													DcyyyH	5698
B. Reproductive effects													DcyyyH	5699
1. Develop files of teratogen/mutagen exposure profiles.			o										DcyyyH	5700
2. Develop computer maps.				o									DcyyyH	5701
3. Implement dissemination stragegy.					o								DcyyyH	5702
4. Assess results and prepare final report.						o							DcyyyH	5703
C. Synergistic effects													DcyyyH	5704
1. Develop prototype report on ethanol/cobalt.			o										DcyyyH	5705
2. Locate cohort of potentially high risk workers.				o									DcyyyH	5706
3. Develop strategies to assess risk.					o								DcyyyH	5707
4. Complete final report and submit abstract to Director, NIOSH and copy to DTS.						o							DcyyyH	5708
													DcyyyH	5709
													DcyyyH	5710
2. The Material Locator System for Unions	81	C					H	c	a				DcyyyH	5713
(Bruce Hills 513-684-2706)													DcyyyH	5714
(0.1/5.0/8.0)(100/VMO-Hyy-630)													DcyyyH	5715
													DcyyyH	5716
A. Utilized 87,000 submissions from unions through 3Q81.													DcyyyH	5717
													DcyyyH	5718
B. Build file with submissions from unions.			30k	60k	90k	120k							DcyyyH	5719
C. Complete report on file utility.						o							DcyyyH	5720
3. Use of Poison Control Centers for Hazard Surveillance	81	82					H	c	a				DcyyyH	5723
(Dave Sundin 513-684-2706)													DcyyyH	5724
(100/VMO-Hyy-635)													DcyyyH	5725
													DcyyyH	5726
A. Complete feasibility assessment (2Q81)													DcyyyH	5727
B. Award grant, if funds are available.			o										DcyyyH	5728
C. Monitor grant, if awarded.				o	o	o							DcyyyH	5729
D. Complete report on potential utility of PCC's.						o							DcyyyH	5730
													DcyyyH	5731

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MEC H	FUN D	RESOURCES PY	NPF $1000	TF $1000		
DIVISION OF SAFETY RESEARCH													E H	5734
													E H	5735
4. Ongoing Safety Criteria Documents	81	85					H	b	a				EcyNyH	5736
(Pettit 923-7574)													EcyNyH	5737
(VLF-mbN-842)(5.0/933.0/1083.0)(VEc-HyN-842)													EcyNyH	5738
.1 Oil and Gas Document													EcyNyH	5739
a. Conduct external review meeting			o										EcyNyH	5740
b. Conduct Division review meeting				o									EcyNyH	5741
c. Conduct Director's review meeting					o								EcyNyH	5742
d. Final deliverable						o							EcyNyH	5743
.2 Pre-Cast Concrete Document													EcyNyH	5744
a. Conduct external review meeting				o									EcyNyH	5745
b. Conduct Division review meeting				o									EcyNyH	5746
c. Conduct Director's review meeting					o								EcyNyH	5747
d. Final deliverable						o							EcyNyH	5748
.3 Fabricated Metals Document													EcyNyH	5749
a. Conduct project officer review meeting			o										EcyNyH	5750
b. Conduct external review meeting				o									EcyNyH	5751
c. Conduct Division review meeting					o								EcyNyH	5752
d. Conduct Director's review meeting					o								EcyNyH	5753
e. Final deliverable					o								EcyNyH	5754
.4 Establish list of candidate subjects for new documents			o										EcyNyH	5755
.5 Coordinate meeting w/OSHA, DCDSD AND DSR - analyze data			o										EcyNyH	5756
on candidates													EcyNyH	5757
.6 Select 3 subjects				o									EcyNyH	5758
.7 Develop RFP - Submit/OAMS				o									EcyNyH	5759
.8 Award contract (1Q83)													EcyNyH	5760
.9 Identify documents with safety impact for DSR			1	2	3								EcyNyH	5761
in-house effort -- coordinate with DCDSD/other divisions													EcyNyH	5762
(roofing, welding, etc.)													EcyNyH	5763
													EcyNyH	5764

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
5. Effectiveness of OSHA Construction Standards Point of Erection (Stanevich (923-7574) (VLF-nbq-845)(100/VEs-Hyy-845)	80	82					H	b	a				EcyyyH	5767
Point of Erection													EcyyyH	5768
.1 Contract No. 210-81-3007 awarded (2Q81)													EcyyyH	5769
.2 Delete requirement for OMB clearance (3Q81)													EcyyyH	5770
.3 Collect and analyze OSHA Accident Data (4Q81)													EcyyyH	5771
.4 Conduct and report on site visits (4Q81)													EcyyyH	5772
.5 Prepare first draft of erection procedure description (4Q81)													EcyyyH	5773
.6 Critique first draft of erection procedure descriptions by NIOSH and OSHA			o										EcyyyH	5774
.7 Conduct site visits and prepare site visit reports (6 completed in 4Q81)			3										EcyyyH	5775
.8 Review progress reports of data collection and analysis			3										EcyyyH	5776
.9 Prepare first draft of research study protocol for determining effectiveness of standards			o										EcyyyH	5777
.10 Initiate OSHA, DSR and SPRG peer review of protocol			o										EcyyyH	5778
.11 Prepare final draft of protocol			o										EcyyyH	5779
.12 Prepare final report				o									EcyyyH	5780
.13 Complete technical evaluation of final report				o									EcyyyH	5781
.14 Submit final report to Director of NIOSH					o								EcyyyH	5782
.15 Submit report to OSHA						o							EcyyyH	5783
Evacuation, Trenching & Shoring													EcyyyH	5784
.16 NIOSH-IA-80-66 Accepted (4Q80)													EcyyyH	5785
.17 Prepare final version of working draft (2Q81)													EcyyyH	5786
.18 Distribute 3000 copies of working draft to workship sponsors (2Q81)													EcyyyH	5787
.19 Defend recommendations at workships (3Q81)													EcyyyH	5788
.20 Prepare summaries of workshop proceedings (4Q81)													EcyyyH	5789
.21 Incorporate workshop comments into first draft of suggested revision (4Q81)													EcyyyH	5790
.22 NIOSH and OSHA complete technical evaluation of first draft (4Q81)													EcyyyH	5791
.23 Prepare final draft of suggested revision			o										EcyyyH	5792
.24 Review and evaluate final draft of suggested revision			o										EcyyyH	5793
.25 Submit suggested revision of OSHA				o									EcyyyH	5794
													EcyyyH	5795
													EcyyyH	5796
													EcyyyH	5797
													EcyyyH	5798
													EcyyyH	5799
													EcyyyH	5800
													EcyyyH	5801
													EcyyyH	5802
													EcyyyH	5803
													EcyyyH	5804

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES NPF PY	RESOURCES NPF $1000	RESOURCES TF $1000		
6. Relationship of Worker Casualties to Fire Protection Strategies	81	82					H	a	a				EcyyyH	5807
(Bochnak 923-7574)													EcyyyH	5808
(VLF-nby-848)(0.8/25.0/49.0)(100/VEc-Hyy-848)													EcyyyH	5809
.1 Meetings at USFA and other sites			1	2	3	4							EcyyyH	5810
.2 Report meeting results			1	2	3	4							EcyyyH	5811
.3 Identify computer outputs for analysis with USFA assistance (4Q81)													EcyyyH	5812
.4 Access data with USFA assistance			o										EcyyyH	5813
.5 Review raw data			o										EcyyyH	5814
.6 Develop study design for analysis and coordinate with SSB			o										EcyyyH	5815
.7 Analyze data and coordinate with SSB				o									EcyyyH	5816
.8 Draft final report						o							EcyyyH	5817
.9 Critique and coordinate results of final report with SSB and USFA						o							EcyyyH	5818
.10 Final report						o							EcyyyH	5819
.11 Critique and approve final report						o							EcyyyH	5820
.12 Publish report (1Q83)													EcyyyH	5821
													EcyyyH	5822
7. Safety Information Profiles (Pettit 923-7574)	80	82					H	b	a				EcyNyH	5823
(VLF-nbN-844)(100/VEc-HyN-844)													EcyNyH	5824
Initiate coordination meetings NIOSH Divisions/OSHA			2										EcyNyH	5825
.2 Determine criteria for selection of profile candidates, and report to DSR Director NIOSH/OSHA			o										EcyNyH	5826
.3 Evaluate profile candidates - DSR/DCDSD			o										EcyNyH	5827
.4 Data analysis/candidates - SSB/DSR			o										EcyNyH	5828
.5 Selection of profile subjects with approval of Directors, DSR/DCDSD				o									EcyNyH	5829
.6 Draft profiles submitted to DCDSD, OD, DPSE, and external peer reviewers for review and comment					o	o							EcyNyH	5830
.7 Final profiles submitted to Director, DSR						o							EcyNyH	5831
													EcyNyH	5832

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
8. General Industries Applications of Mine Safety Technology (Stanevich 599-7574) (2.0/55.0/115.0)(100/VEc-Hyy-804)	81	83					H	g	a				EcyyyH	5843
													EcyyyH	5844
													EcyyyH	5845
.1 Meet with MSHA; develop scope of interagency agreement			o	o									EcyyyH	5846
.2 Coordination with DRDS and DCDSD			o		o								EcyyyH	5847
.3 Training of DSR staff			o		o	o							EcyyyH	5848
.4 Site visits													EcyyyH	5849
a. Surface and underground mines				o	o	o							EcyyyH	5850
b. Mine safety research centers				o	o								EcyyyH	5851
c University laboratories			o	o	o	o							EcyyyH	5852
.5 Study protocol submitted to DSR review				o									EcyyyH	5853
.6 Study protocol submitted to Peer Review				o									EcyyyH	5854
.7 Interagency and other clearances obtained from CDC				o									EcyyyH	5855
.8 Award Interagency Agreemtent				o									EcyyyH	5856
.9 Phase I report on identification of problem areas, correlation of mine hazards with general industries, and summary of mine safety technology successes													EcyyyH	5857
													EcyyyH	5858
													EcyyyH	5859
a. Submit for DSR review						o							EcyyyH	5860
b. Peer and consultant review						o							EcyyyH	5861
c. Submit for publication (3Q83)													EcyyyH	5862
.10 Phase II report on recommendations for applications to general industry safety and design of studies and/or methodologies for demonstration projects in general industries													EcyyyH	5863
													EcyyyH	5864
													EcyyyH	5865
													EcyyyH	5866
a. Submit for DSR review (1Q83)													EcyyyH	5867
b. Peer and consultant review (2Q83)													EcyyyH	5868
c. Submit for publication (3Q83)													EcyyyH	5869
													EcyyyH	5870

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
9. Effects of Safety Tasks on Injury Rates	80	83					H	b	a				EcyyyH	5873
(Simons 923-7574)													EcyyyH	5874
(1.0/2.5/32.5)(100/VEc-Hyy-805)													EcyyyH	5875
.1 Send questionnaire for peer review			o										EcyyyH	5876
.2 Peer review of statistical analysis techniques			o										EcyyyH	5877
.3 RFC to Contracts			o										EcyyyH	5878
.4 Computer programming packages selected				o									EcyyyH	5879
.5 Computer programming completed				o									EcyyyH	5880
.6 Award contract					o								EcyyyH	5881
.7 Monthly reports received					1	4							EcyyyH	5882
.8 OMB clearance obtained						o							EcyyyH	5883
.9 Questionnaire mailing						o							EcyyyH	5884
.10 Second mailing of questionnaires to nonrespondents (1Q83)													EcyyyH	5885
.11 Receipt of final tabulation or results (2Q83)													EcyyyH	5886
.12 Close of contract (2Q83)													EcyyyH	5887
.13 Completion of initial analysis (2Q83)													EcyyyH	5888
.14 Computer program revised (if necessary) (2Q83)													EcyyyH	5889
.15 Review of report - first draft (3Q83)													EcyyyH	5890
.16 Final report complete (4Q83).													EcyyyH	5891
													EcyyyH	5892
10. Field Demonstration-Recommended Safety Practices-Confined	80	84					H	b	a				EcyyyH	5895
Spaces (Pettit 923-7574)													EcyyyH	5896
(2.0/300.0/360.0)(100/VEc-Hyy-846)													EcyyyH	5897
.1 Receipt of proposed course content & performance			o										EcyyyH	5898
objectives (Task Order deliverable)													EcyyyH	5899
.2 Peer Review of task order deliverable by DSR & DTMD			o										EcyyyH	5900
.3 Meeting between Project Reactor Group (industry and			o										EcyyyH	5901
labor supporters) and NIOSH to define extent of interest													EcyyyH	5902
in participating in study													EcyyyH	5903
.4 Submit draft RFC for field demonstration for peer review			o										EcyyyH	5904
- DSR, NIOSH Divisions, external													EcyyyH	5905
.5 Submit request for funding study through NIOSH planning			o										EcyyyH	5906
channels													EcyyyH	5907
.6 Submit RFC to OAMS				o									EcyyyH	5908
.7 Award contract						o							EcyyyH	5909
													EcyyyH	5910

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MEC H	FUND	RESOURCES PY	NPF $1000	TF $1000		
OFFICE OF EXTRAMURAL COORDINATION AND SPECIAL PROJECTS													F H	5913
													F H	5914
11. International Activities (Bursenos, 443-3136)	71	C					H	f	a				FFyyyH	5915
(VCA-nXy-878) (1.5/0.4/0.473) (100/VCA-Hyy-878)													FFyyyH	5916
													FFyyyH	5917
.1 Arrange for second U.S.-Finnish Scientific Symposium													FFyyyH	5918
scheduled to be held in Finland													FFyyyH	5919
a. Receive NIOSH abstracts and form committee to select			o										FFyyyH	5920
appropriate papers													FFyyyH	5921
b. Finalize agenda			o										FFyyyH	5922
c. Finalize abstracts of NIOSH presentations				o									FFyyyH	5923
d. Coordinate travel arrangements for NIOSH participants				o									FFyyyH	5924
e. Receive final texts of NIOSH presentations				o									FFyyyH	5925
f. Hold symposium					o								FFyyyH	5926
g. Publish Proceedings						o							FFyyyH	5927
.2 Complete agreement with ILO, UNEP and WHO for NIOSH			o										FFyyyH	5928
support to the International Programme on Chemical Safety													FFyyyH	5929
.3 Cooperative Agreement with WHO Programme of Action for													FFyyyH	5930
Workers' Health													FFyyyH	5931
a. Coordinate activities in WHO/NIOSH Workplan for period			o	o	o	o							FFyyyH	5932
July 1981 to June 1982													FFyyyH	5933
b. Receive annual report of progress from WHO					o								FFyyyH	5934
c. Project Officer site visit and development of 1982-1983					o								FFyyyH	5935
Workplan													FFyyyH	5936
.4 Initiate and negotiate Memorandum of Understanding with			o										FFyyyH	5937
Swedish Work Environment Fund													FFyyyH	5938
.5 PL-480 Research Projects													FFyyyH	5939
a. Number of projects completed			1	2	4								FFyyyH	5940
b. Number of final reports received including projects			1	2	3	5							FFyyyH	5941
completed last year													FFyyyH	5942
c. Number of abstracts received from NIOSH Project Officers				1	2	3							FFyyyH	5943
and transmitted to NIOSH Director one month after													FFyyyH	5944
receipt of final report													FFyyyH	5945
.6 Coordinate completion of occupational safety and health													FFyyyH	5946
portion of U.S.-China Bilateral Agreement for Health													FFyyyH	5947
Cooperation													FFyyyH	5948
a. Meet with Director, NIOSH and Director, DRDS to discuss			o										FFyyyH	5949
NIOSH activities under the Agreement													FFyyyH	5950
b. Arrange for U.S. delegation to China to negotiate work-				o									FFyyyH	5951
plan to present to U.S.-China Joint Committee													FFyyyH	5952
c. Participate in U.S.-China Joint Committee Meeting					o								FFyyyH	5953
.7 Coordinate implementation of occupational safety and health													FFyyyH	5954
portion of U.S.-Polish Agreement													FFyyyH	5955
a. Arrange for assignment of scientists from DBBS to				o									FFyyyH	5956
Institutes of Occupational Medicine in Lodz and													FFyyyH	5957
Sosnowiec													FFyyyH	5958

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000		
b. Arrange for assignment of scientists from Poland to NIOSH				o									FFyyyH	5959
													FFyyyH	5960
.8 Arrange visits for foreign visitors and delegations to NIOSH with appropriate staff in Atlanta, Morgantown, and/or Cincinnati			o	o	o	o							FFyyyH	5961
													FFyyyH	5962
													FFyyyH	5963
.9 Attend meetings at PHS level in preparation for Joint Committee Meetings under bilateral agreements with Poland, Yugoslavia,, USSR, Egypt, China, Nigeria and Mexico			o	o	o	o							FFyyyH	5964
													FFyyyH	5965
													FFyyyH	5966
10 Update paper on "Current State of NIOSH International Activities				o									FFyyyH	5967
													FFyyyH	5968
11 Submit FY 1983 Travel Plan to CDC						o							FFyyyH	5969
12 Update accession list of final reports and publications from PL-480 research						o							FFyyyH	5970
													FFyyyH	5971
13 Develop white paper on coordination of OSH activities in developing countries with overall CDC public health activities in developing countries for FY 1983					o								FFyyyH	5972
													FFyyyH	5973
													FFyyyH	5974
													FFyyyH	5975

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	C	PLANNED 1Q	2Q	COMPLETION 3Q	4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	TF $1000		
12. Occupational Health and Medical Care (Casey, 443-4770) (VCA-uXy-880) (2.7/0.200/0.282) (100/VCA-Hyy-880)	79	C					H	c	a				FFyyyH	5978
													FFyyyH	5979
													FFyyyH	5980
.1 NHSC Activities													FFyyyH	5981
a. Meet quarterly with NHSC Project Officer			o	o	o	o							FFyyyH	5982
b. Provide orientation of occupational safety and health for new head, BHPDS and NHSC			o										FFyyyH	5983
													FFyyyH	5984
c. Participate in 4 Regional Inservice Conferences					o								FFyyyH	5985
d. Participate in 4 NHSC orientation conferences					o								FFyyyH	5986
e. Promote attendance of NHSC physicians at Occupational Medicine Course in Atlanta in November			o										FFyyyH	5987
													FFyyyH	5988
f. Write 2 articles for Notes on Occupational Safety and Health			o		o								FFyyyH	5989
													FFyyyH	5990
.2 Private Occupational Health Services Delivery													FFyyyH	5991
a. Meet or talk quarterly with OHMO, GHAA, AGPA, and SBA			o	o	o	o							FFyyyH	5992
b. Determine with OHMO five additional HMOs which would be good candidates for an OS&H program			o										FFyyyH	5993
													FFyyyH	5994
c. Contact 5 additional identified HMOs to offer technical assistance and occupational health orientation			2	5									FFyyyH	5995
													FFyyyH	5996
d. Develop news articles for OHMO monthly publications													FFyyyH	5997
.01 HMOs and Occupational Health				o									FFyyyH	5998
.02 Occupational Safety and Health in Primary Care Settings					o								FFyyyH	5999
													FFyyyH	6000
e. Develop Memorandum of Understanding with SBA to explore ways to help small business with OS&H			o										FFyyyH	6001
													FFyyyH	6002
f. Submit MOU to OPPE				o									FFyyyH	6003
g. Obtain signatures of concurrence on SBA-NIOSH MOU				o									FFyyyH	6004
h. Send two NIOSH speakers to AGPA conference on OS&H in October (at AGPA invitation and expense)			o										FFyyyH	6005
													FFyyyH	6006
i. Establish liaison with new AGPA section on Occupational Medicine				o									FFyyyH	6007
													FFyyyH	6008
j. Check various data sources for census of OS&H providers				o									FFyyyH	6009
k. Develop initial list					o								FFyyyH	6010
l. Submit list to AOMA, AMA, etc. for review					o								FFyyyH	6011
m. Finalize list and submit for NIOSH publication (1st Q, FY 1983)													FFyyyH	6012
													FFyyyH	6013
.3 BHS/PHS Activities													FFyyyH	6014
a. Transfer quarterly funds to BHS for PHS Hospital Center			o	o	o	o							FFyyyH	6015
b. Conduct 1 site visit and receive briefing of PHS Hospital Center Activities						o							FFyyyH	6016
													FFyyyH	6017
c. Receive FY 1981 annual progress report from PHS Hospital Center			o										FFyyyH	6018
													FFyyyH	6019
d. Receive FY 1981 annual financial report from PHS Hospital Center			o										FFyyyH	6020
													FFyyyH	6021
.4 Promoting Health - 1990 Objectives													FFyyyH	6022
a. Establish internal NIOSH coordinating committee related				o									FFyyyH	6023

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
to the 1990 objectives													FFyyyH	6024
b. Develop list of existing research projects				o									FFyyyH	6025
c. Review and compare lists for completeness and accuracy					o								FFyyyH	6026
d. Prepare analysis and report for utilizing existing sources						o							FFyyyH	6027
													FFyyyH	6028
e. Contact agencies participating in 1990 objectives				o									FFyyyH	6029
f. Hold meeting of research agencies to discuss setting up of Interagency Task Force						o							FFyyyH	6030
													FFyyyH	6031
g. Submit format and participation agreement to OPPE/OD (1st Q, FY 1983)													FFyyyH	6032
													FFyyyH	6033
													FFyyyH	6034

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PRO G	MEC H	FUN D	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
DIVISION OF STANDARDS DEVELOPMENT AND TECHNOLOGY TRANSFER													G	H 6037
													G	H 6038
13. Development of Criteria and Recommendations--	70	C					H	b	a				Gbyyy	H 6039
Document Development (D. West 513/684-8302)													Gbyyy	H 6040
(VID-nNX-077, 078, 088 & 089)(100/VID-Hyy-089)													Gbyyy	H 6041
													Gbyyy	H 6042
.1 RF/Microwave Radiation (CD)													Gbyyy	H 6043
a. Complete evaluation and review of document references			o										Gbyyy	H 6044
b. Submit document for 1st level review				o									Gbyyy	H 6045
c. Submit document for 2nd level review				o									Gbyyy	H 6046
d. Submit document for 3rd level review					o								Gbyyy	H 6047
e. Final document submitted to Director, NIOSH					o								Gbyyy	H 6048
.2 Crystalline Silica (Technical Report)													Gbyyy	H 6049
a. Submit document for 3rd level review			o										Gbyyy	H 6050
b. Final document submitted to Director, NIOSH			o										Gbyyy	H 6051
.3 Dinitrotoluene (CD)													Gbyyy	H 6052
a. Acquire and evaluate new information			o										Gbyyy	H 6053
b. Submit document for 1st level review				o									Gbyyy	H 6054
c. Submit document for 2nd level review					o								Gbyyy	H 6055
d. Submit document for 3rd level review					o								Gbyyy	H 6056
e. Final document submitted to Director, NIOSH						o							Gbyyy	H 6057
.4 Styrene (CD)													Gbyyy	H 6058
a. Acquire and evaluate new information				o									Gbyyy	H 6059
b. Submit document for 1st level review				o									Gbyyy	H 6060
c. Submit document for 2nd level review					o								Gbyyy	H 6061
d. Submit document for 3rd level review						o							Gbyyy	H 6062
e. Final document submitted to Director, NIOSH (1Q83)													Gbyyy	H 6063
.5 Welding, Brazing & Thermal Cutting (CD)													Gbyyy	H 6064
a. Develop work plan			o										Gbyyy	H 6065
b. Acquire and evaluate new information				o									Gbyyy	H 6066
c. Submit document for 1st level review				o									Gbyyy	H 6067
d. Submit document for 2nd level review					o								Gbyyy	H 6068
e. Submit document for 3rd level review						o							Gbyyy	H 6069
f. Final document submitted to Director, NIOSH (1Q83)													Gbyyy	H 6070
.6 Foundries (CD)													Gbyyy	H 6071
a. Acquire and evaluate new information					o								Gbyyy	H 6072
b. Submit document for 1st level review						o							Gbyyy	H 6073
c. Submit document for 2nd level review (1Q83)													Gbyyy	H 6074
d. Submit document for 3rd level review (1Q83)													Gbyyy	H 6075
e. Final document submitted to Director, NIOSH (2Q83)													Gbyyy	H 6076
.7 Methyl Halides (CD)													Gbyyy	H 6077
a. Acquire and evaluate new information				o									Gbyyy	H 6078
b. Submit document for 1st level review				o									Gbyyy	H 6079
c. Submit document for 2nd level review					o								Gbyyy	H 6080
d. Submit document for 3rd level review					o								Gbyyy	H 6081
e. Final document submitted to Director, NIOSH						o							Gbyyy	H 6082

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
.8 Trinitroflorenone (CIB)													GbyyyH	6083
a. Submit document for 1st level review			o										GbyyyH	6084
b. Submit document for 2nd level review				o									GbyyyH	6085
c. Final document submitted to Director, NIOSH				o									GbyyyH	6086
.9 Glycol Ethers (CIB)													GbyyyH	6087
a. Submit document for 1st level review			o										GbyyyH	6088
b. Submit document for 2nd level review				o									GbyyyH	6089
c. Final document submitted to Director, NIOSH				o									GbyyyH	6090
.10 Asbestos: Asbestos Exposure During Clutch Assemblies (Technical Report)													GbyyyH	6091
													GbyyyH	6092
a. Acquire and review new information				o									GbyyyH	6093
b. Submit document for 1st level review				o									GbyyyH	6094
c. Submit document for 2nd level review				o									GbyyyH	6095
d. Final document submitted to Director, NIOSH					o								GbyyyH	6096
.11 Ethylene Dibromide (CIB)													GbyyyH	6097
a. Submit document for 2nd level review			o										GbyyyH	6098
b. Final document submitted to Director, NIOSH			o										GbyyyH	6099
.12 PCB Transformer Fires (Technical Report)													GbyyyH	6100
a. Acquire and evaluate new information			o										GbyyyH	6101
b. Submit document for 1st level review				o									GbyyyH	6102
c. Submit document for 2nd level review					o								GbyyyH	6103
d. Final document submitted to Director, NIOSH						o							GbyyyH	6104
.13 Ethanol Interaction (CIB)													GbyyyH	6105
a. Reassign to new project officer and review prior drafts and literature			o										GbyyyH	6106
													GbyyyH	6107
b. Prepare final Branch draft				o									GbyyyH	6108
c. Submit for Division review				o									GbyyyH	6109
d. Prepare draft for Director's review					o								GbyyyH	6110
.14 Unidentified CIB													GbyyyH	6111
a. Acquire and evaluate new information					o								GbyyyH	6112
b. Submit document for 1st level review					o								GbyyyH	6113
c. Submit document for 2nd level review						o							GbyyyH	6114
d. Final document submitted to Director, NIOSH						o							GbyyyH	6115
.15 Unidentified CIB													GbyyyH	6116
a. Acquire and evaluate new information					o								GbyyyH	6117
b. Submit document for 1st level review					o								GbyyyH	6118
c. Submit document for 2nd level review						o							GbyyyH	6119
d. Final document submitted to Director, NIOSH						o							GbyyyH	6120
.16 Cobalt (CD)													GbyyyH	6121
a. Final document submitted to Director, NIOSH			o										GbyyyH	6122
.17 Cadmium (CD Update)													GbyyyH	6123
a. Determine document format				o									GbyyyH	6124
b. Complete literature update				o									GbyyyH	6125
c. Submit document for 1st level review				o									GbyyyH	6126
d. Submit document for 2nd level review					o								GbyyyH	6127
e. Submit document for 3rd level review						o							GbyyyH	6128

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
f. Final document submitted to Director, NIOSH (1Q83)													GbyyyH	6129
.18 RF Sealers (Worker Information Bulletin)													GbyyyH	6130
a. Complete literature review			o										GbyyyH	6131
b. Submit document for 1st level review			o										GbyyyH	6132
c. Submit document for 2nd level review				o									GbyyyH	6133
d. Final document submitted to Director, NIOSH				o									GbyyyH	6134
.19 Mill Reagents (Information Bulletin)													GbyyyH	6135
a. Complete revisions of final Division draft and submit to Director, NIOSH			o										GbyyyH	6136
b. Prepare approved copy for printing and distribution				o									GbyyyH	6137
.20 Alkaline Dusts(Alert)													GbyyyH	6138
a. Reassign to new project officer & review prior drafts and literature			o										GbyyyH	6139
b. Prepare final Branch draft				o									GbyyyH	6140
c. Submit for Division Review				o									GbyyyH	6141
d. Prepare draft for Director NIOSH				o									GbyyyH	6142
.21 Hazardous Waste(Worker Bulletin)													GbyyyH	6143
a. Prepare and submit purchase order			o										GbyyyH	6144
b. Award contract				o									GbyyyH	6145
c. Receive contractor's 1st report				o									GbyyyH	6146
d. Receive camera ready draft from contractor					o								GbyyyH	6147
e. Submit draft and prepare transmittal letters for Director's approval					o								GbyyyH	6148
f. Prepare transmittal package for printing and distribution					o								GbyyyH	6149
.22 Benzidene Cogener Dyes (Worker Bulletin)													GbyyyH	6150
a. Prepare transmittal letters and submit draft for Director's approval			o										GbyyyH	6151
b. Prepare camera ready copy and transmittal package for printing and distribution				o									GbyyyH	6152
.23 Residential Waste Collection (Worker Bulletin)													GbyyyH	6153
a. Print and distribute					o								GbyyyH	6154
.24 DEHP (Special Hazard Review)													GbyyyH	6155
a. Prepare camera ready copy and transmittal letters					o								GbyyyH	6156
b. Print and distribute						o							GbyyyH	6157
.25 Radiation in Mines CD													GbyyyH	6158
a. Acquire and evaluate new information				o									GbyyyH	6159
b. Submit document for 1st level review					o								GbyyyH	6160
c. Submit document for 2nd level review						o							GbyyyH	6161
d. Submit document for 3rd level review(1Q83)													GbyyyH	6162
e. Final document submitted to Director, NIOSH (2Q83)													GbyyyH	6163
.26 Asbestos (Mining) (CD)													GbyyyH	6164
a. Decide on analytical methods gaps				o									GbyyyH	6165
b. Develop risk assessment					o								GbyyyH	6166
c. Complete reviews						o							GbyyyH	6167
d. Complete Document (2Q83)													GbyyyH	6168
.27 Silica (Mining) (CD)													GbyyyH	6169
													GbyyyH	6170
													GbyyyH	6171
													GbyyyH	6172
													GbyyyH	6173
													GbyyyH	6174

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
a. Decide if task 3 can be performed				o									GbyyyH	6175
b. Identify personnel from within NIOSH to assist in the project				o									GbyyyH	6176
													GbyyyH	6177
c. Complete a summary of health effects information					o								GbyyyH	6178
d. Complete 1st draft of a recommended standard					o								GbyyyH	6179
e. Complete external review						o							GbyyyH	6180
f. Submit for Division review						o							GbyyyH	6181
.28 Resource Recruitment													GbyyyH	6182
													GbyyyH	6183
a. Identify candidates for 10 vacancies			7	3									GbyyyH	6184
													GbyyyH	6185
b. Interview candidates for 10 vacancies			7	2	1								GbyyyH	6186
													GbyyyH	6187
c. Make candidate selections			7	2	1								GbyyyH	6188
.29 Contracts for Document Development													GbyyyH	6189
a. Submit Technical Evaluation, Chromium				o									GbyyyH	6190
b. Submit Business Evaluation, Chromium				o									GbyyyH	6191
c. Award Task Order C, Chromium					o								GbyyyH	6192
d. Submit Technical Evaluation, Acrylic Acid, Esters				o									GbyyyH	6193
e. Submit Business Evaluation, Acrylic Acid, Esters				o									GbyyyH	6194
f. Award Task Order D, Acrylic Acid, Esters					o								GbyyyH	6195
.30 FY83 New Documents													GbyyyH	6196
a. Receive priority profile for four new Criteria Documents from PRAB													GbyyyH	6197
					o								GbyyyH	6198
b. Submit literature search request to TIB						o							GbyyyH	6199
c. Receive literature search from TIB						o							GbyyyH	6200
e. Submit Director's draft to Director, NIOSH					o								GbyyyH	6201
													GbyyyH	6202

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
14. Technical Information (T. Schoenborn 513-684-8326)	70	C					H	g	a				GdyyyH	6205
(VSL-pyy-744 & 742)(100/VSL-Hyy-742)													GdyyyH	6206
													GdyyyH	6207
.1 Maintenance of Information Support Capabilities.													GdyyyH	6208
a. Submit P.O. agreements for Non-Fedlink information													GdyyyH	6209
services (FY-83).					o								GdyyyH	6210
1. Interactive Sciences Corporation (ISC)													GdyyyH	6211
2. Institute for Scientific Information (ISI)													GdyyyH	6212
3. Chemical Abstracts (CA)													GdyyyH	6213
b. Submit IA to Federal Library Committee													GdyyyH	6214
(FLC) Fedlink for data base support (FY-83)						o							GdyyyH	6215
1. Lockheed Information Service (LIS)													GdyyyH	6216
2. Bibliographic Retrieval Service (BRS)													GdyyyH	6217
3. Systems Development Corporation (SDC)													GdyyyH	6218
4. New York Times Information Services (NYTIS)													GdyyyH	6219
5. Politechs/EIES													GdyyyH	6220
6. Research Library Info. Network (RLIN)													GdyyyH	6221
7. Online Computer Library Center (OCLC)													GdyyyH	6222
8. Mead Data Corp. (NEXIS)													GdyyyH	6223
c. NTIS Interagency Agreement (30k)													GdyyyH	6224
1. Send IA to OPPE			o										GdyyyH	6225
2. Execute IA				o									GdyyyH	6226
d. Transfer FY82 IA Funds (69.5k)				o									GdyyyH	6227
.2 Technical Information Assistance													GdyyyH	6228
													GdyyyH	6229
a. Requests received from internal sources			300	600	900	1.2k							GdyyyH	6230
													GdyyyH	6231
b. Requests completed for internal sources			300	600	900	1.2k							GdyyyH	6232
													GdyyyH	6233
c. Requests received from external sources			1.1k	2.2k	3.3k	4.4k							GdyyyH	6234
													GdyyyH	6235
d. Requests completed for external sources			1.1k	2.2k	3.3k	4.4k							GdyyyH	6236
													GdyyyH	6237
e. Requests referred to other NIOSH staff			50	100	150	200							GdyyyH	6238
													GdyyyH	6239
.3 Current Awareness & Document Support Retrieval Services			15	30	40	60							GdyyyH	6240
.4 Tracking of Data Base Usage													GdyyyH	6241
													GdyyyH	6242
a. % of funds used for Fedlink data bases			25	50	80	100							GdyyyH	6243
													GdyyyH	6244
b. % of funds used for non-Fedlink information services			45	60	80	100							GdyyyH	6245
													GdyyyH	6246
c. % of funds used for PCC costs			25	50	80	100							GdyyyH	6247
.5 Evaluation of Information Services													GdyyyH	6248
a. Develop Internal Evaluation Method in Cooperation													GdyyyH	6249
with OPPE			o										GdyyyH	6250

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MEC H	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
b. Complete Evaluation Method				o									GdyyyH	6251
c. Complete Evaluation of Information Services						o							GdyyyH	6252
.6 External Dissemination													GdyyyH	6253
a. Exhibits													GdyyyH	6254
													GdyyyH	6255
1. Provide information exchange via scientific conference													GdyyyH	6256
			2	4									GdyyyH	6257
													GdyyyH	6258
2. Support exhibit staffed by other NIOSH staff			2	5	11	12							GdyyyH	6259
b. Publications Dissemination													GdyyyH	6260
1. Letter requests													GdyyyH	6261
													GdyyyH	6262
Domestic			9k	18k	24k	36k							GdyyyH	6263
													GdyyyH	6264
Foreign			1.5k	3k	4.5k	6k							GdyyyH	6265
													GdyyyH	6266
2. Telephone requests			700	1.4k	2.1k	2.8k							GdyyyH	6267
													GdyyyH	6268
3. Bulk and special requests			50k	100k	150k	200k							GdyyyH	6269
4. Inventory of NIOSH pub. warehouse						o							GdyyyH	6270
5. Distribution of Notices of Availability													GdyyyH	6271
													GdyyyH	6272
a. Internal			1	2	3	4							GdyyyH	6273
													GdyyyH	6274
b. External			1	2	3	4							GdyyyH	6275
													GdyyyH	6276
6. Update Mailing List			3	6	9	12							GdyyyH	6277
.7 Internal Information Services													GdyyyH	6278
a. Library													GdyyyH	6279
													GdyyyH	6280
1. Book cataloging & shelving/distribution			300	600	900	1.2k							GdyyyH	6281
													GdyyyH	6282
2. Serials check-in & distribution			3.0k	6.0k	9.0k	12k							GdyyyH	6283
3. In-house requests for articles													GdyyyH	6284
													GdyyyH	6285
a. Supplied in-house			1.0k	2.0k	3.0k	4.0k							GdyyyH	6286
													GdyyyH	6287
b. Supplied inter-library			600	1.2k	1.8k	2.4k							GdyyyH	6288
													GdyyyH	6289
c. Supplied for profiles			100	200	300	400							GdyyyH	6290
													GdyyyH	6291
d. Supplied for CIB's			75	150	225	300							GdyyyH	6292
													GdyyyH	6293
e. Supplied for Research Analysis			125	250	375	500							GdyyyH	6294
													GdyyyH	6295
f. Supplied for criteria documents			1.5k	3.0k	4.0k	5.0k							GdyyyH	6296

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000		
													GdyyyH	6297
4. Number of translation requests completed				150		300							GdyyyH	6298
b. Acquisitions													GdyyyH	6299
													GdyyyH	6300
Acquisition of contract deliverables for Contract File			20	40	60	80							GdyyyH	6301
													GdyyyH	6302
c. Conduct in-house information service seminars			2	4	6	8							GdyyyH	6303
d. Update information resources pamphlet						o							GdyyyH	6304
.8 Publication Distribution Contract													GdyyyH	6305
a. Award Contract				o									GdyyyH	6306
b. Quarterly Reports Received					1	2							GdyyyH	6307
c. Submit Contract Renewal						o							GdyyyH	6308
.9 Purchase CIS/ILO Annual Microfiche File						o							GdyyyH	6309
.10 TRAINS (Translation Information System)													GdyyyH	6310
a. Input translations			150	300	450	600							GdyyyH	6311
b. Provide searches			10	20	30	40							GdyyyH	6312
.11 Library Contract (if funds are available)													GdyyyH	6313
a. Submit to Contracts Office			o										GdyyyH	6314
b. Award Contract						o							GdyyyH	6315
													GdyyyH	6316
OFFICE OF THE DIRECTOR													K H	6318
													K H	6319
15. Information (D. Van Brunt, 443-2100) (VAA-pXX-005)(100/VAA-pXX-005)	81	81					H	c	a				KKyyyH	6320
													KKyyyH	6321
													KKyyyH	6322

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WORK FORCE DEVELOPMENT

The NIOSH mission established by the Occupational Safety and Health Act (Public Law 91-596) is two-fold in scope: Section 20 of the Act mandates the NIOSH research function, and Section 21 mandates the training and education function. Section 22 establishes and defines the Institute function to carry out the purposes of Sections 20 and 21. The Research Results Implementation Program is designed and developed to implement Section 21 of the Act by increasing the numbers and competence of the OSH work force.

NIOSH is set up primarily as a prevention-oriented research institute responsible for identifying occupational hazards, conducting research and field studies on these problems, and conveying the results to OSHA, MSHA, other Federal agencies, and the OSH professional community at large. Research-results implementation activities are based on the premise that research results and field study information are of limited value unless they are actually applied to the protection of workers. NIOSH as a research institute has two major objectives: to produce significant, valid information, and to get this information out to the workplace where it can be used to improve workplace conditions and protect the worker. The latter objective is a primary one because the research, no matter how good, cannot be effective until translated into action programs. This NIOSH program provides the mechanism for NIOSH research to be brought to bear upon prevention, intervening before worker exposure occurs.

This NIOSH program with its subactivities of technical training and education, curriculum development and technology transfer, manpower assessment, and educational resource development is an OSH hazard "prevention" program which meshes in with the DHHS agency-wide research-in-prevention initiative and, at the same time, carries out one of the two mandates of the NIOSH mission.

Division of Training and Manpower Development

Continuing Education -- NIOSH conducts technical training courses for the Department, for other Federal, State, and local government agencies, and for the private sector including OSH practitioners in industry, management representatives, and labor unions. Courses are provided to new NIOSH personnel for orientation and to existing staff members for maintenance of competence and career development.

In 1970, the Act established a tuition-free training program within NIOSH. Since 1973, the Institute's training program has been conducted on a reimbursable, self-sustaining basis. In FY 1974, the first year of reimbursable training, 50 courses were presented, 1,100 professionals were trained, and the

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Institute realized over a quarter of a million dollars in tuition fees. The number of trainees trained directly by NIOSH steadily increased until 1977 when mechanisms were developed with outside organization to provide "indirect" training to meet the ever-increasing demand. The Educational Resource Center Grant Program contributed a large part to the indirect training efforts. In FY 1981, the ERC programs, coupled with the Institute's own direct training program, trained over 11,000 OSH practitioners.

In FY 1981, special customized training courses were presented to the U.S. Navy (Portsmouth, N.H.; Pearl Harbor; Guam), State of Colorado Industrial Commission, State of Nevada Workers' Compensation Board, DHHS's Office of Health and Safety, GSA, the American Foundrymen's Society, and the Foundry Workers Labor Union. In addition, cooperative training courses for NIOSH staff were conducted with three NIOSH office/divisions (OPPE, DSDTT, and DPSE). Also, a course on job stress factors and the hazards associated with the use of video display terminals was presented to State of New York white collar personnel by DTMD in conjunction with staff support from DBBS. Visitors from several foreign governments were received and training opportunities were explored and arrangements made to accommodate foreign students in future NIOSH and ERC-sponsored courses. The Vocational-Industrial Arts OSH Training Program, developed by NIOSH under an interagency agreement with OSHA, was presented by NIOSH staff and consultants in four regional locations.

In FY 1982, NIOSH will again offer a full schedule of short courses in industrial hygiene, occupational safety, industrial toxicology, occupational health nursing, and occupational medicine at the Cincinnati headquarters and in the field. Courses will be conducted by the direct mechanism using DTMD faculty supported by research division staffs and by the indirect mechanisms. ERC continuing education courses are expected to exceed 200. Special courses will be conducted for NIOSH personnel including environmental epidemiology and industrial hygiene for physicians (DSHEFS), respiratory protection quantitative fit testing for toxic effects inhalation study workers (DBBS), and training for NIOSH supervisory and clerical staff on VDT Workplace Hazards (presented jointly with DBBS). Specialized training to outside organizations will include State agencies and OSHA New Directions Grantees, labor unions, and the Federal sector, including MSHA, OSHA, and DHHS agencies. Special emphasis this year will be given to DOD, particularly the engineering disciplines and OSH officers. Training consultation to foreign governments and accommodation of foreign visitors in NIOSH courses will continue. The Pulmonary Function Testing Training Course Approval System will be maintained as required under the Cotton Dust Standard, and a system evaluation study will conclude with a final report in the fourth quarter. The vocational/industrial arts educational program will be expanded to other regions of the country through train-the-trainer sessions. An initiative in specialized, new technology training programs for industrial firms will incorporate the recent findings and recommendations of the NIOSH research divisions.

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Curriculum Development -- The outputs of most research organizations are, by their specific nature, aimed at or appeal to a very limited audience. Furthermore, the reporting format is designed in a manner that meets the need for publication in technical journals. It is through the assimilation and correlation of facts and information produced through the Institute's research program that the OSH field more appropriately deals with the exposure of employees to hazards in the workplace. The curriculum development activity custom designs programs that present bodies of knowledge to meet the needs of various disciplines at varying levels of complexity. A train-the-trainer program to introduce and sensitize science teachers to the hazards of their working environment has resulted in the training of over 100,000 secondary school teachers in the last 3 years at a cost of little more than one dollar ($1.00) per trainee. Not only has this program been extremely cost beneficial but its impact has resulted in major curriculum changes in recently published high school science texts. A series of audiovisual presentations on the problems of asbestos removal from school buildings was developed jointly with OSHA, EPA, and NCI. The series consisted of an overview of the problem, a program on personnel and medical monitoring, and a program on sample screening (Kupel-Kim Method). Over 1,000 copies of these programs were disseminated through NIOSH, EPA, and OSHA for loan in conducting contractor training sessions.

Several instructional modules were developed in FY 1981 that represent a direct relationship to NIOSH research output. One example is a video tape related to control technology assessment on the subject of pesticide formulation, a look at the state of the art, entitled "First Consideration." Another is a video tape about the problem of vibrating tools and the physical effects produced by these tools on workers and a discussion of the diagnostic procedures used in uncovering Reynaud's syndrome. Two slide/tape programs on occupational dermatoses, generally accepted to represent 50 percent of all occupationally related health problems, were disseminated, one designed for the health professional, the other for the lay person.

The major thrust again this year will be the development of educational materials in conjunction with the NIOSH research divisions based on significant research outputs and/or special training needs for their personnel. The activities proposed represent translation of current high-priority Institute research projects into easily utilizable information for dissemination to broader audiences than the audience for which most research reports are traditionally designed. The impact of this plan should be such that the necessary changes will be made in hazardous workplace situations jointly by management and worker representatives to elimiate or reduce the potential of workers to injury and illness.

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Educational Resource Development--The OSH Act calls for an adequate supply of resources; i.e., qualified personnel and educational/informational programs to carry out the purposes of the Act. The educational resource development activity investigates and employs strategies and mechanisms to assess these resource requirements and continually evaluates current programs. Ongoing assessment of OSH professionals identifies trends toward and gaps between manpower needs and supply/demand. A primary use for this information to more effectively utilize Institute funding and expertise is to foster and support educational and training programs in the academic and non-Federal sectors.

Over the past 4 years, the Institute has conducted research investigations relating to manpower supply and demand. Since the early 1970s, NIOSH training grants have provided a progressively increasing pipeline of highly qualified graduates to serve as educators, researchers, or practitioners in the OSH field. Numerous other institutions received NISOH non-financial assistance to develop new educational programs. Since 1977 ERC outreach activities to new, emerging programs have been significanly increased. NIOSH has a continuing program of promoting the OSH field as a career choice to pre-baccalaureate students as well as to workers who are seeking early or mid-career change. Career brochures, academic program directories, continuing education schedules, and the like are distributed widely to support guidance counseling and recruitment efforts.

In FY 1982, the Institute will continue to administer and monitor all training grants, including the twelve ERCs. The OSH Labor Market Contract awarded in FY 1981 will be monitored and completed. The educational consultation and technical assistance to academic and similar institutions will continue both intramurally and through ERC outreach programs. Special consideration will be given to investigation of alternative funding sources for educational programs. The NIOSH OSH Career Guidance and Information Service also will continue. A symposium on occupational health nursing will be designed and conducted in joint sponsorship with NIOSH research divisions and ERC nursing programs. The efforts to impact key non-OSH professionals and disciplines through their educational systems will continue with programs designed to influence schools of engineering and schools of business. As a followup to the self-evaluation instrument for the electric power industry, a research study will be initiated jointly with DBBS to determine the effect of training and other influences on work practices and hazard occurrences in a public utility.

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000		
********WORK FORCE DEVELOPMENT********														K 6325
														K 6326
DIVISION OF TRAINING AND MANPOWER DEVELOPMENT													H	K 6327
													H	K 6328
1. Continuing Education (E. Leininger 684-8228)	71	C					K	b	a					HayyyK 6330
(VUI-210-792) (6.9/66/364)(100/VUI-Kyy-792)														HayyyK 6331
														HayyyK 6332
.1 Maintain Institute's direct training program														HayyyK 6333
.a Present Industrial Hygiene programs			7	14	20	24								HayyyK 6334
.b Present Occupational Safety programs				1	4	7								HayyyK 6335
.c Present Occupational Health Nursing program					1									HayyyK 6336
.2 Coordinate and Support ERC Continuing Education Programs														HayyyK 6337
.a Publish ERC Course Schedules			1		2									HayyyK 6338
.b Conduct Annual Meeting of ERC Continuing Education Coordinators				o										HayyyK 6339
														HayyyK 6340
.c Provide on-site assistance			o	o	o	o								HayyyK 6341
.3 Provide training to other NIOSH Divisions														HayyyK 6342
.a Provide Environmental Epidemiology Course to DSHEFS (North Carolina ERC)			o											HayyyK 6343
														HayyyK 6344
.b Provide Industrial Hygiene Training to DSHEFS Physicians						o								HayyyK 6345
.c Provide Respiratory Protection quantitative fit testing training to DBBS staff				o	o									HayyyK 6346
														HayyyK 6347
.d Provide training on VDT hazards to NIOSH staff (Joint with DBBS)				o		o								HayyyK 6348
														HayyyK 6349
.4 Provide training to outside organizations														HayyyK 6350
.a Present courses to State Agencies and New Direction Grantees						o								HayyyK 6351
														HayyyK 6352
.b Present courses to Federal Agencies						o								HayyyK 6353
.5 Provide training support to foreign governments			o	o	o	o								HayyyK 6354
.6 Administer the Pulmonary Function Testing Training Course Approval Program														HayyyK 6355
														HayyyK 6356
.a Review and Approve/Disapprove Applications			o	o	o	o								HayyyK 6357
.b Evaluate Course Approval System														HayyyK 6358
.1 Monitor contract; review contractor reports			o	o	o									HayyyK 6359
.3 Receive Final Report						o								HayyyK 6360
.7 Continue vocational/industrial arts occupational safety and health program for secondary school teachers (Joint with OSHA)														HayyyK 6361
														HayyyK 6362
														HayyyK 6363
.a Provide assistance to 4 regions for presentation of courses			1	2	3	4								HayyyK 6364
														HayyyK 6365
.8 Conduct specialized training for industry														HayyyK 6366
.a Present training courses			o	o	o	o								HayyyK 6367
														HayyyK 6368

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
2. Materials Development (N.J. Berberich 684-8241) (VUH-211-782)(1)/490/750)(100/VUH-Kyy-782)	76	C					K	b	a				HbyyyK	6371
													HbyyyK	6372
													HbyyyK	6373
.1 Develop a continuing educational program on the hazards of confined spaces entry. (DSR)													HbyyyK	6374
													HbyyyK	6375
.a Review existing document and preliminary planning report			o										HbyyyK	6376
.b Complete develcoment instructional program materials (1QFY83).													HbyyyK	6377
													HbyyyK	6378
.c Pilot test program at several sites with at least 3 different target audiences (4QFY83)													HbyyyK	6379
													HbyyyK	6380
.d Assess the pilot test program (1QFY84)													HbyyyK	6381
.e Present final course package to Director DTMD (2QFY84)													HbyyyK	6382
.2 Develop an instructional program on the problems related to disposal of hazardous wastes (DPSE, DSHEFS)													HbyyyK	6383
													HbyyyK	6384
.a Complete review existing materials; submit course outline to Director DTMD for P.O.I.				o									HbyyyK	6385
													HbyyyK	6386
.b Complete development of instructors outline					o								HbyyyK	6387
.c Complete student text(s) (1QFY83)													HbyyyK	6388
.d Pilot Test (3QFY83)													HbyyyK	6389
.e Present final course package to Director DTMD (4QFY83)													HbyyyK	6390
.3 Develop continuing educational program--Engineering control of the occupational health hazards in the dry cleaning industry. (DPSE)													HbyyyK	6391
													HbyyyK	6392
													HbyyyK	6393
.a Develop instructional materials				o									HbyyyK	6394
.b Pilot presentation					o								HbyyyK	6395
.c Complete instructors resource guide						o							HbyyyK	6396
.d Train-the-Trainer Session (1QFY83)													HbyyyK	6397
.4 Develop and update academic courses for upper level undergraduate engineering students. (DPSE)													HbyyyK	6398
													HbyyyK	6399
.a Develop and present new course at Purdue University				o									HbyyyK	6400
.b Update present course and present at Ohio State University						o							HbyyyK	6401
.c Develop cooperative program with other schools of engineering					1	2							HbyyyK	6402
													HbyyyK	6403
.5 Design and develop an advanced course on respiratory protection. (DSR)													HbyyyK	6404
													HbyyyK	6405
.a Complete review content of existing course			o										HbyyyK	6406
.b Develop instructors outline					o								HbyyyK	6407
.c Complete Student Text						o							HbyyyK	6408
.d Pilot test						o							HbyyyK	6409
.e Present final course to Director DTMD (1QFY83)													HbyyyK	6410
.6 Complete development of a series of audiovisual modules reflecting current research outputs of NIOSH													HbyyyK	6411
													HbyyyK	6412
.a Hazards associated with spray painting and coating (DPSE)				o									HbyyyK	6413
.b Hazards associated with R.F. heaters and sealers (DBBS)					o								HbyyyK	6414
.c Recommendations on working at V.D.T. (DBBS)					o								HbyyyK	6415
.d Problems of disposal of Hazardous Wastes materials and						o							HbyyyK	6416

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000		
dump cleanups (DPSE)													HbyyyK	6417
.e Assessing reproductive hazards in the workplace (DBBS, DSHEF)						o							HbyyyK	6418
													HbyyyK	6419
.f Correlation of industrial hygiene and engineering careers (DPSE)						o							HbyyyK	6420
													HbyyyK	6421
.7 Revision of NIOSH syllabus and other curriculum materials													HbyyyK	6422
.a Submit draft materials from contractors to review panel			o	o	o	o							HbyyyK	6423
.b Select contractors for revision of existing units in text (1QFY83)			o	o	o	o							HbyyyK	6424
													HbyyyK	6425
.c Review draft materials													HbyyyK	6426
.d Submit revised materials for printing (1QFY84)													HbyyyK	6427
													HbyyyK	6428

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
3. Educational Resource Development (T. Purcell 684-8240) (VUE-212-772)(4.0/12666/9798) (100/VUE-sXy-722) (100/VUE-Kyy-773)	79	C					K	e	a				HcyyyK	6431
													HcyyyK	6432
													HcyyyK	6433
													HcyyyK	6434
.1 Administer Training Grant Program													HcyyyK	6435
.a Award continuation training grants (3QFY81)													HcyyyK	6436
.b Monitor Educational Resource Centers			3	6	9	12							HcyyyK	6437
.c Monitor Training Project Grants			3	6	9	13							HcyyyK	6438
.d Prepare Annual Trainee Statistical Report and incorporate in 4th Quarter Progress Report and Annual Report to Congress						o							HcyyyK	6439
													HcyyyK	6440
													HcyyyK	6441
.2 Conduct Occupational Safety and Health Labor Market Survey													HcyyyK	6442
.a Award contract (4QFY81)													HcyyyK	6443
.b Receive and review technical reports			1	2	3								HcyyyK	6444
.c Receive and review Final Report						o							HcyyyK	6445
.d Transmit abstract of Final Report to Director, NIOSH and copy of report to DTS													HcyyyK	6446
													HcyyyK	6447
.3 Provide consultation and technical assistance to academic institutions													HcyyyK	6448
													HcyyyK	6449
.a Contact academic institutions			1	2	3	4							HcyyyK	6450
.b Initiate OSH Programs				1		2							HcyyyK	6451
.4 Administer OSH Career Information Service													HcyyyK	6452
.a Respond to all inquiries received within a two-week period			o	o	o	o							HcyyyK	6453
													HcyyyK	6454
.b Distribute career guidance materials			o	o	o	o							HcyyyK	6455
.5 Conduct Symposium on Occupational Health Nursing: Practices, Research, and Education (Joint with Research Divisions)													HcyyyK	6456
													HcyyyK	6457
.a Identify Symposium Steering Committee			o										HcyyyK	6458
.b Initial Steering Committee Meeting to define objectives and agenda topics			o										HcyyyK	6459
													HcyyyK	6460
.c Select session chairman and invited speakers			o										HcyyyK	6461
.d Prepare Conference Management RFC			o										HcyyyK	6462
.e Award Contract				o									HcyyyK	6463
.f Receive reports from contractor concerning facilities and hotel arrangements, speaker confirmation, registrations, etc.					o	o							HcyyyK	6464
													HcyyyK	6465
													HcyyyK	6466
.g Present Symposium						o							HcyyyK	6467
.h Prepare Symposium Proceedings (1QFY83)													HcyyyK	6468
.6 Develop OSH Programs to Enhance Engineering Education													HcyyyK	6469
.a Develop academic programs													HcyyyK	6470
.1 Initiate contact with engineering schools			1	2	3	4							HcyyyK	6471
.2 Develop cooperative arrangements to incorporate instructional materials within engineering curricula					1	2							HcyyyK	6472
													HcyyyK	6473
.b Develop specific interest in technical and professional engineering societies													HcyyyK	6474
													HcyyyK	6475
.1 Present paper on occupational safety and health			o										HcyyyK	6476

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
engineering education at annual meeting of American Institute of Chemical Engineers													HcyyyK	6477
													HcyyyK	6478
.2 Serve as Program Chairman, Environmental Engineering Division, American Society for Engineering Education for session on OSH engineering education at 1982 annual conference					o								HcyyyK	6479
													HcyyyK	6480
													HcyyyK	6481
													HcyyyK	6482
.3 Initiate contact with technical societies to promote interest					1	2							HcyyyK	6483
													HcyyyK	6484
.c Conduct engineering control technology workshops													HcyyyK	6485
.1 Publish proceedings of 2nd workshop					o								HcyyyK	6486
.2 Develop position papers for 3rd workshop						o							HcyyyK	6487
.3 Conduct 3rd workshop (1QFY83)													HcyyyK	6488
.7 Determination of Effects of Training and other Factors on Work Practices in Electric Utility Industry (Joint with DBBS)													HcyyyK	6489
													HcyyyK	6490
.a Identify worker population			o										HcyyyK	6491
.b Administer self-assessment instruments				o									HcyyyK	6492
.c Correlate pre/post test results with safety/accident/ injury data					o								HcyyyK	6493
													HcyyyK	6494
.d Recommend appropriate training, education and information programs to correct deficiencies in workers skill, performance and knowledge levels						o							HcyyyK	6495
													HcyyyK	6496
													HcyyyK	6497
.8 Develop OSH Programs with Schools of Business													HcyyyK	6498
.a Develop cooperative arrangements with National Safety Management Society			o										HcyyyK	6499
													HcyyyK	6500
.b Initial contact with academic business programs				o									HcyyyK	6501
.c Prepare report on status of and recommendations for OSH content in business school curricula						o							HcyyyK	6502
													HcyyyK	6503
													HcyyyK	6504

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ADMINISTER INSTITUTE PROGRAMS

NIOSH's goal, to Administer Institute Programs, is the process for providing the means for setting and meeting Institute objectives. Under this goal NIOSH manages direct research and intervention "to ensure, insofar as possible, every working man and women in the Nation both safe and healthful working conditions and to preserve our human resources." The means for reaching this end include facilities, funds, and people, and a system of planning, coordination, administration, and accountability for these resources.

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ADMINISTRATION OF INSTITUTE PROGRAMS

Office of the Director, NIOSH

The Office of the Director, in providing management leadership for the National Institute for Occupational Safety and Health, plans, directs, and coordinates the national program to develop and establish recommended OSH standards and to conduct research, training, technical assistance, and related activities to ensure safe and healthful working conditions for working men and women.

Each NIOSH office/division carries out related functions to respond to the administrative needs of NIOSH, and to manage its own resources. Administrative functions of the individual office/divisions include development and implementation of their individual policies, ensuring adherence to NIOSH policies and goals, and establishing priorities in, and management of, their projects within the various program areas. Each office/division also supports the others with its specialized expertise as needed, and several provide support services to the entire Institute.

Office of Administrative Management Services

OAMS supports the total Institute with services including finances; personnel activities; procurement and control of properties, equipment, and services; establishment of policies and procedures; and technical leadership and guidance.

Office of Program Planning and Evaluation

OPPE plans and coordinates the development of the strategy and philosophy of operation of the Institute regarding mission and objectives, conducts policy analyses, conducts or participates in special studies for program planning and evaluation, and conducts the necessary control functions to ensure operational compliance toward program objectives within the Institute. Program planning will be developed to provide adequate control over resources and performance. OPPE will develop a project management system to evaluate variances in cost and technical performance as well as variances in project scheduling. Program review will be tailored to monitor and analyze these variances. Program planning also will be based on opportunities to intervene in economic, legal, and technical processes to prevent hazards in the workplace. Policy analysis will provide baseline information on these processes and permit special assessment of possible intervention targets.

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000			
********ADMINISTRATION OF INSTITUTE PROGRAMS********														W	6508
														W	6509
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE													A	W	6510
													A	W	6511
1. Administration of DBBS Activities (B. Johnson, 684-8465)	82	82					W	c	a					AAyyyW	6512
(100/VOA-Wyy-303)(100/VOO-Wyy-348)(100/VOB-Wyy-284)														AAyyyW	6513
(100/VOG-Wyy-355)(100/VOT-Wyy-390)														AAyyyW	6514
														AAyyyW	6515
.1 Submit Quarterly Program Progress Reports			o	o	o	o								AAyyyW	6516
.2 Personnel Evaluations														AAyyyW	6517
a. Completion of evaluations for 80 (approx.) Civil Servants				o		o								AAyyyW	6518
b. Completion of evaluations for 18 Commissioned Officers				o		o								AAyyyW	6519
.3 Receive final report and submit report to Director, NIOSH for														AAyyyW	6520
0 completed projects														AAyyyW	6521
.4 Receive final report and submit report to Director, NIOSH for														AAyyyW	6522
21 projects to be completed this year														AAyyyW	6523
a. Machine-Paced Stress in Postal Workers						o								AAyyyW	6524
b. Neurotoxicity of Ethylene & Propylene Oxide					o									AAyyyW	6525
c. Whole Body Vibration: Health Effects						o								AAyyyW	6526
d. Phase Shifts and Stressor Effects					o									AAyyyW	6527
e. Behavioral-Ergonomic Support for HHEs						o								AAyyyW	6528
f. Fibrogenicity & Pulmonary Carcinogenesis				o										AAyyyW	6529
g. Carcinogenicity of Aromatic Amines-Azo Dyes						o								AAyyyW	6530
h. Inhalation Toxicity of Organic Oxides						o								AAyyyW	6531
i. Chronic Toxicity of Insulation Materials						o								AAyyyW	6532
j. Metabolism of Azo Dyes to Aromatic Amines			o											AAyyyW	6533
k. Clinical-Biochemical Support Service						o								AAyyyW	6534
l. Diagnostic & Research Pathology Services						o								AAyyyW	6535
m. Particulate and Tissue Analysis Support						o								AAyyyW	6536
n. Animal Husbandry Support Service						o								AAyyyW	6537
o. Inhalation Toxicology Service and Research						o								AAyyyW	6538
p. Clinical Chemistry Service and Research Support-HHEs						o								AAyyyW	6539
q. Impact-Impulse Noise Data Base						o								AAyyyW	6540
r. Work Practices for Vibration Reduction						o								AAyyyW	6541
s. RF/Microwave Dosimetry Development						o								AAyyyW	6542
t. Health Hazard Evaluatins of Physical Agents						o								AAyyyW	6543
														AAyyyW	6544
.5 Accumulated spending of non-personnel funds by organizational			x.xk	x.xk	x.xk	x.xk								AAyyyW	6545
unit and Program by quarter for the Fiscal Year. (k)														AAyyyW	6546
														AAyyyW	6547
a. Office of the Director														AAyyyW	6548
														AAyyyW	6549
b. Applied Psychology and Ergonomics Branch														AAyyyW	6550
														AAyyyW	6551
c. Experimental Toxicology Branch														AAyyyW	6552
														AAyyyW	6553

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
d. Physical Agents Effects Branch													AAyyyW	6554
e. Technical Support Branch													AAyyyW	6555
f. Neurotoxic Effects													AAyyyW	6556
g. Stress-Related Disorders													AAyyyW	6557
h. Reproductive Effects													AAyyyW	6558
i. Standards Development													AAyyyW	6559
j. Injury/Trauma													AAyyyW	6560
k. Physical Agents													AAyyyW	6561
l. Health Hazard Evaluations													AAyyyW	6562
m. Cardiovascular Disorders													AAyyyW	6563
n. Cancer													AAyyyW	6564
o. Cutaneous Disorders													AAyyyW	6565
p. Instrument/Methods Development													AAyyyW	6566
q. Lung Disorders													AAyyyW	6567
r. All Others													AAyyyW	6568
s. Other Personal Protective Equipment													AAyyyW	6569
t. Administration of Institute Programs													AAyyyW	6570
													AAyyyW	6571
													AAyyyW	6572
													AAyyyW	6573
													AAyyyW	6574
													AAyyyW	6575
													AAyyyW	6576
													AAyyyW	6577
													AAyyyW	6578
													AAyyyW	6579
													AAyyyW	6580
													AAyyyW	6581
													AAyyyW	6582
													AAyyyW	6583
													AAyyyW	6584
													AAyyyW	6585
													AAyyyW	6586
.7 Review DBBS Safety Committee Report			o	o	o	o							AAyyyW	6587
.8 Conduct Q. A. audits of research projects			3	6	9	12							AAyyyW	6588
.9 Submit progress report to NTP			o	o	o	o							AAyyyW	6589
.10 Review DBBS projects with other Divisions			o	o	o	o							AAyyyW	6590
.11 Conduct review of HHE/TA activities			o	o	o	o							AAyyyW	6592
.12 Conduct NTP Working Group meeting			o	o	o	o							AAyyyW	6593
.13 Provide statistical consultation			8	16	24	32							AAyyyW	6594
.14 Submit final report to Director, NIOSH						o							AAyyyW	6595
													AAyyyW	6596

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
DIVISION OF PHYSICAL SCIENCES AND ENGINEERING													B W	6599
													B W	6600
2. Administrative Support for DPSE Research (W. Haag 684-4321) (VQA-uXy-402)(100/VQA-Wyy-402)	82	82					W	g	a				BByyyW	6601
													BByyyW	6602
													BByyyW	6603
.1 Quarterly Program Review			o	o	o	o							BByyyW	6604
.2 Personnel Evaluations													BByyyW	6605
a. Complete evaluation CO personnel			o										BByyyW	6606
b. Complete evaluation CS personnel					o								BByyyW	6607
.3 Accumulate spending of nonpersonnel funds by organizational unit and program by quarter			o	o	o	o							BByyyW	6608
													BByyyW	6609
.4 Submit quarterly EEO report			o	o	o	o							BByyyW	6610
.5 Receive and submit final report for FY81 completed projects			3	7									BByyyW	6611
.6 Receive and submit reports to Director, NIOSH, for projects to be completed in FY82			o	o	o	16							BByyyW	6612
													BByyyW	6613
													BByyyW	6614

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
DIVISION OF RESPIRATORY DISEASE STUDIES													C W	6617
													C W	6618
3. Office of the Director-Division Management	81	C					W	b	b				CCmyyW	6619
(Merchant J 304 599-7474)(VKA-vDp-103)(100/VCC-Wbd-103)													CCmyyW	6620
													CCmyyW	6621
.1 Personnel evaluations													CCmyyW	6622
a. Complete COEPR evaluations for Commissioned Corp personnel			o										CCmyyW	6623
													CCmyyW	6624
b. Complete evaluations for Civil Service personnel					o								CCmyyW	6625
.2 Receive American College of Radiology (210-81-2101-JC) quarterly reports			o	o	o	o							CCmyyW	6626
													CCmyyW	6627
.3 Submit report to NIOSH EEO Officer			o	o	o	o							CCmyyW	6628
.4 Monitor timely distribution of Division non-personnel funds by Branch (cumulative x 1000)													CCmyyW	6629
													CCmyyW	6630
a. OD			( )	( )	( )	( )							CCmyyW	6631
b. LIB			( )	( )	( )	( )							CCmyyW	6632
c. CIB			( )	( )	( )	( )							CCmyyW	6633
d. EPI			( )	( )	( )	( )							CCmyyW	6634
e. EIB			( )	( )	( )	( )							CCmyyW	6635
f. EPB			( )	( )	( )	( )							CCmyyW	6636
.5 Monitor submission of Division RFC's to contracts office													CCmyyW	6637
a. ACR-210-81-2101 incremental funding				o									CCmyyW	6638
b. Task Order Data Processing 210-81-1010				o									CCmyyW	6639
c. Case Location Services-New contract			o										CCmyyW	6640
d. Renew IA NIOSH/SSA			o										CCmyyW	6641
e. Renew IA NIOSH/IRS			o										CCmyyW	6642
f. Renew IA NIOSH/NCHS			o										CCmyyW	6643
g. Task Order Data Entry-Programming (MSB)			1	2	3	4							CCmyyW	6644
h. Phthalic Anhydride-Laboratory Assessment					o								CCmyyW	6645
i. IA Component Emission Measurements			o										CCmyyW	6646
j. Synfuel Process Technical Review				o									CCmyyW	6647
k. Demonstration Plant Design-Review			o										CCmyyW	6648
l. Body Fluids Bioassay Task Order-Gasification			o	o	o								CCmyyW	6649
m. Body Fluid Bioassay Task Order-Liquefaction			o	o									CCmyyW	6650
n. Cytogenic Screening-Liquefaction			o	o									CCmyyW	6651
o. Technical Support IA-Oil Shale				o									CCmyyW	6652
p. Society Occupational Environmental Health (103)			o										CCmyyW	6653
q. American College of Chest Physicians (103)				o									CCmyyW	6654
r. Institute of Occupational Medicine (189)			o										CCmyyW	6655
.6 Provide technical monitoring to NIOSH grants													CCmyyW	6656
a. Occupational Cause of Pulmonary Fibrosis (992)													CCmyyW	6657
S.A. Olenchock			o	o	o	o							CCmyyW	6658
b. Antigens for Detecting Industrial Hypersensitivity (865)													CCmyyW	6659
S.A. Olenchock			o	o	o	o							CCmyyW	6660
.7 Monitor project peer review			o	o									CCmyyW	6661
.8 Receive final reports from DRDS FY81 projects and submit													CCmyyW	6662

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000		
to Director, NIOSH, through program analyst			12										CCmyyW	6663
.9 Receive final reports for FY82 and date projects and submit copies of abstract to Director, NIOSH, wit copy of report and abstract to DTS						21							CCmyyW	6664
													CCmyyW	6665
													CCmyyW	6666
													CCmyyW	6667

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
DIVISION OF SURVEILLANCE, HAZARD EVALUATIONS AND FIELD STUDIES													D W	6670
													D W	6671
4. Technical Management (DSHEFS) (Phil Landrigan 513-684-2427) (14.0/100.0/500.0)(100/VMA-Wyy-522)(100/VMR-Wyy-680)	81	C					W	g	a				DDyyyW	6672
													DDyyyW	6673
													DDyyyW	6674
A. Extend case location contract					o								DDyyyW	6675
B. Extend computer contracts.					o								DDyyyW	6676
C. Conduct/project progress reviews.			o	o	o	o							DDyyyW	6677
D. Develop program and project plans for the next fiscal year in compliance with NIOSH planning guidance.						o							DDyyyW	6678
													DDyyyW	6679
E. Review and stimulate training including long-term training for Division/Office staff.			o	o	o	o							DDyyyW	6680
													DDyyyW	6681
F. Assist local Administrative Officer in areas including energy conservation, space, safety and health problems, equipment utilization, etc.			o	o	o	o							DDyyyW	6682
													DDyyyW	6683
													DDyyyW	6684
G. Provide requests for contract action to OAMS as approved in annual program and project plans.													DDyyyW	6685
													DDyyyW	6686
H. Review contract monitoring with Branch on quarterly basis. Identify problem areas and consult with contracting officer.			o	o	o	o							DDyyyW	6687
													DDyyyW	6688
I. Develop annual merit pay plans.			o										DDyyyW	6689
J. Review progress on merit pay plans.			o	o	o	o							DDyyyW	6690
K. Nominate O/D staff for awards.			o	o	o	o							DDyyyW	6691
L. Complete CS performance evaluations.				o									DDyyyW	6692
M. Complete Commissioned Officer evaluations.			o										DDyyyW	6693
N. Conduct staff meetings with Branch Chiefs.			o	o	o	o							DDyyyW	6694
O. Review monthly status of funds for all projects generally and the O/D as an organization.			o	o	o	o							DDyyyW	6695
													DDyyyW	6696
P. Report EEO activities quarterly, i.e. recruitment, career development, etc.			o	o	o	o							DDyyyW	6697
													DDyyyW	6698
Q. Complete Division portion of Annual Report.			o										DDyyyW	6699
R. Complete final reports.			129	259	392	532							DDyyyW	6700
2. Case comparison study of parental employment						o							DDyyyW	6701
3. NOHS-II Survey Manual				o									DDyyyW	6702
4. NOHS-II Sample Design Report					o								DDyyyW	6703
5. NOHS-II Data Editing Report						o							DDyyyW	6704
6. Registry-based occupatinal cancer surveillance						o							DDyyyW	6705
7. Disability Survey - 1st strategy report			o										DDyyyW	6706
8. Disability Survey - occ. charac. '75-'76				o									DDyyyW	6707
9. Disability Survey - disability '69-76					o								DDyyyW	6708
10. Disability Survey - 2nd strategy report						o							DDyyyW	6709
11. Occupational Mortality in Washington State					o								DDyyyW	6710
12. Information dissemination models - reproductive						o							DDyyyW	6711
13. Information dissemination models - synergistic						o							DDyyyW	6712
14. Material locator system						o							DDyyyW	6713
15. Poison control centers						o							DDyyyW	6714
16. Abrasive blasting						o							DDyyyW	6715

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000		
17. Uranium enrichment						o							DDyyyW	6716
18. Uranium millers				o									DDyyyW	6717
19. Uranium miners					o								DDyyyW	6718
20. TEL - Ind. Hyg.			o										DDyyyW	6719
21. New Agents-III (Paraquat)					o								DDyyyW	6720
22. New Agents-III (Vanadium)						o							DDyyyW	6721
23. Formaldehyde - Ind. Hyg.						o							DDyyyW	6722
24. Tanning - Ind. Hyg. (Vegetable)				o									DDyyyW	6723
25. Automotive Wood Die (ind. Hyg)			o										DDyyyW	6724
26. Version D Life Table				o									DDyyyW	6725
27. Ind. Epid. Exercises					o								DDyyyW	6726
28. Worker notification						o							DDyyyW	6727
29. Pulp and paper - Mort.			o										DDyyyW	6728
30. Pulp and paper - ind. hyg.						o							DDyyyW	6729
31. Dow case control study						o							DDyyyW	6730
32. Health Hazard Evaluations			125	250	375	500							DDyyyW	6731
33. Biological hazards					o								DDyyyW	6732
S. Criteria Documentation, Standards Support and Research Grants													DDyyyW	6733
													DDyyyW	6734
1. Evaluate and participate on research grants.			5	10	15	20							DDyyyW	6735
													DDyyyW	6736
2. Submit RFA's for research grants to OECSP.			1	2	3	4							DDyyyW	6737
													DDyyyW	6738
3. Complete input to criteria documents, CIB's, etc.			2	4	6	8							DDyyyW	6739
													DDyyyW	6740
4. Complete support to OSHA and MSHA for hearings, etc.			1	2	3	4							DDyyyW	6741
													DDyyyW	6742
5. Complete support and testimony for congressional hearings.			1	2	3	4							DDyyyW	6743
													DDyyyW	6744
T. Quarterly projections of person-years.			48.8	97.6	146	195							DDyyyW	6745
													DDyyyW	6746
U. Quarterly projections of free funds.			2.5k	3.5k	4.4k	5.2k							DDyyyW	6747
													DDyyyW	6748

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
DIVISION OF SAFETY RESEARCH													E W	6751
													E W	6752
5. Testing and Certification Branch Management	72	C					W	a	a				EdyyyW	6753
(Campbell 923-7331)													EdyyyW	6754
(VLI-mbp-852)(5.0/200.0/350.0)(100/VEd-Wyy-852)													EdyyyW	6755
.1 Prepare and submit for publication revised certified equipment list					o								EdyyyW	6756
													EdyyyW	6757
.2 Issue approvals, denials, stop sales, and recalls			37	74	111	148							EdyyyW	6758
.3 Summary report on certification issues						o							EdyyyW	6759
.4 Complete 100% of rewrite of administrative portion of CFR 11 and submit to Director, DSR				o									EdyyyW	6760
													EdyyyW	6761
.5 Receive Phase II laboratory modification approval for respirator research and field investigation program from OD			o										EdyyyW	6762
													EdyyyW	6763
													EdyyyW	6764
.6 Complete draft of systems manual defining the operating procedures for evaluation and certification of respirators						o							EdyyyW	6765
													EdyyyW	6766
													EdyyyW	6767
.7 Submit recommendations regarding the inactivation, termination or reactivation of sound level meter program			o										EdyyyW	6768
													EdyyyW	6769
													EdyyyW	6770
6. .Safety Division Management(Oppold 923-7595)	77	C					W	c	a				EEyyyW	6773
(VLA-vpb-802)(8.0/250.0/490.0)(100/VEE-Wyy-802)													EEyyyW	6774
.1 Personnel Evaluations													EEyyyW	6775
a.Completion of evaluations for 54 civil service personnel						o							EEyyyW	6776
b.Completion of evaluations for 17 commissioned officers						o							EEyyyW	6777
.2 All hands briefing meetings			o	o	o	o							EEyyyW	6778
.3 Nominate appropriate staff for recognition at Annual Award Ceremony.			o										EEyyyW	6779
													EEyyyW	6780
.4 Submit EEO report to NIOSH EEO Officer			o	o	o	o							EEyyyW	6781
.5 Receive final reports and submit reports to Director, NIOSH for projects to be completed this year.													EEyyyW	6782
													EEyyyW	6783
a. Safety Surveillance Branch			1	3	5	10							EEyyyW	6784
b. Accident and Injury Epidemiology Branch			o	1	8	9							EEyyyW	6785
c. Standards and Consultation Branch			1	1	1	7							EEyyyW	6786
d. Testing and Certification Branch			o	o	4	6							EEyyyW	6787
.6 Spend Non-Personnel funds--(allocations by Branch X 1000)													EEyyyW	6788
a. Office of Director			48	100	152	200							EEyyyW	6789
b. Safety Surveillance Branch			22	346	379	565							EEyyyW	6790
c. Accident and Injury Epidemiology Branch			75	104	133	138							EEyyyW	6791
d. Standards and Consultation Branch			38	74	262	289							EEyyyW	6792
e. Testing and Certification Branch			590	752	995	.1k							EEyyyW	6793
													EEyyyW	6794

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
OFFICE OF EXTRAMURAL COORDINATION AND SPECIAL PROJECTS													F W	6797
													F W	6798
7. NIOSH Extramural Coordination and Special Projects (Bridbord, 443-6437) (VCA-uXy-873) (5.4/0.135/0.302) (100/VCA-Wyy-873)	76	C					W	c	a				FFyyyW	6799
													FFyyyW	6800
													FFyyyW	6801
													FFyyyW	6802
.1 Perform Institute Extramural Coordination													FFyyyW	6803
a. Represent Institute on Intra-and Inter-agency Committees			o	o	o	o							FFyyyW	6804
													FFyyyW	6805
National Commission on Cancer, Heart and Lung Disease													FFyyyW	6806
													FFyyyW	6807
HHS Digestive Diseases Coordinating Committee													FFyyyW	6808
Committee to Coordinate Environmental and Related Programs													FFyyyW	6809
													FFyyyW	6810
White House Task Force on Pain													FFyyyW	6811
Ad Hoc Working Group on Dermatology													FFyyyW	6812
1990's Task Forces													FFyyyW	6813
Smoking Task Force													FFyyyW	6814
b. Human Subjects Review Board (HSRB)													FFyyyW	6815
Hold meetings of NIOSH Human Subjects Review Board			3	6	9	12							FFyyyW	6816
c. Interagency Agreements													FFyyyW	6817
.01 Transfer funds accordingly as spelled out in AFIP Agreement			o	o	o	o							FFyyyW	6818
													FFyyyW	6819
.02 Complete agreement with EPA for National Commission on Cancer, Heart and Lung Diseases and transfer funds accordingly					o								FFyyyW	6820
					-								FFyyyW	6821
													FFyyyW	6822
.2 Special Projects													FFyyyW	6823
a. Hold Fourth Annual NIOSH Scientific Symposium (Continuing Education Courses)			o										FFyyyW	6824
													FFyyyW	6825
b. Develop plans for Fifth Annual NIOSH Scientific Symposium				o									FFyyyW	6826
													FFyyyW	6827
c. Hold Occupational Medicine Conference for NIOSH EIS Officers and other staff			o										FFyyyW	6828
													FFyyyW	6829
d. Participate in CDC EIS Conference					o								FFyyyW	6830
e. Develop paper outlining approach for book on "Differential Diagnoses for Occupationally Related Diseases"					o								FFyyyW	6831
													FFyyyW	6832
													FFyyyW	6833
f. Revise Project Concept Memo for Occupational Health Center for Lung Disease				o									FFyyyW	6834
													FFyyyW	6835
g. Coordinate NIOSH input into review of Environmental Impact Statements			o	o	o	o							FFyyyW	6836
													FFyyyW	6837
													FFyyyW	6838

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
8. Office Management (Bridbord, 443-6437) (VCA-vXy-872) (2.0/0.15/0.073) (100/VCA-Wyy-872)	81	C					W	c	a				FFyyyW	6841
													FFyyyW	6842
													FFyyyW	6843
.1 Personnel Evaluations													FFyyyW	6844
a. Completion of evaluations for 20 Civil Servants						o							FFyyyW	6845
b. Completion of evaluations for 3 Commissioned Officers						o							FFyyyW	6846
.2 Receive terminal reports from TA's and submit abstracts				10		21							FFyyyW	6847
to Director, NIOSH on 21 completed research grants													FFyyyW	6848
.3 Number of publications appearing in scientific journals			o	o	o	o							FFyyyW	6849
from NIOSH grant supported research													FFyyyW	6850
.4 Receive final reports and submit abstracts to Director,				1	2	3							FFyyyW	6851
NIOSH on 3 Special Foreign Currency Research Projects													FFyyyW	6852
.5 Accumulated spending of non-personnel funds by organization			o	o	o	o							FFyyyW	6853
unit and program by quarter for the Fiscal Year													FFyyyW	6854
.6 Submit Quarterly EEO Report to NIOSH EEO Officer			o	o	o	o							FFyyyW	6855
													FFyyyW	6856

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
DIVISION OF STANDARDS DEVELOPMENT AND TECHNOLOGY TRANSFER													G W	6859
													G W	6860
9. Program Management (R. Lemen 513/684-8302)	70	C					W	g	a				Gayyy W	6861
(VIA-vNX-712, 722, 723, 724, & 082)(100/VIA-Wyy-082)													Gayyy W	6862
													Gayyy W	6863
.1 Hold monthly Division project progress reviews			o	o	o	o							Gayyy W	6864
.2 Prepare quarterly progress reports for OPPE			o	o	o	o							Gayyy W	6865
.3 Submit final program plans to Director, NIOSH for FY83						o							Gayyy W	6866
.4 Submit final project plans to OPPE for FY83						o							Gayyy W	6867
.5 Prepare quarterly status report for Division			o	o	o	o							Gayyy W	6868
.6 Prepare monthly financial status reports for Division			o	o	o	o							Gayyy W	6869
.7 Nominate appropriate staff for recognition at annual awards ceremony						o							Gayyy W	6870
													Gayyy W	6871
.8 Complete personnel evaluations on merit pay commissioned officers and civil service employees						65							Gayyy W	6872
													Gayyy W	6873
.9 Respond to requests for evaluation of health information in support of OSHA enforcement activities			5	10	15	20							Gayyy W	6874
													Gayyy W	6875
.10 Provide scientific support on special projects to Office of Director			1	2	3	4							Gayyy W	6876
													Gayyy W	6877
a. Submit RFC for Consultant Services Contract				o									Gayyy W	6878
b. Award Contract					o								Gayyy W	6879
													Gayyy W	6880
.11 Submit EEO report quarterly			1	2	3	4							Gayyy W	6881
.12 Utilize Division human resources within 90% of allocation rate (PY)			21.2	42.4	63.6	84.8							Gayyy W	6882
													Gayyy W	6883
.13 Obligate Division Financial resources within 90% of project expenditure rate ($1000)			960	1.9m	2.9m	3.9m							Gayyy W	6884
													Gayyy W	6885
.14 Submit recommendation Documents to Institute Director Office													Gayyy W	6886
													Gayyy W	6887
													Gayyy W	6888
a. Criteria Documents				1	2	4							Gayyy W	6889
													Gayyy W	6890
b. Current Intelligence Bulletins			1	2	3	4							Gayyy W	6891
.15 Perform statistical developmental research:													Gayyy W	6892
a. Produce drafts of 3 of 5 chapters for a NIOSH textbook, "Sampling the Occupational Environment", (Leidel, Busch, and Lynch). 20 chapter total				o	o	o							Gayyy W	6893
													Gayyy W	6894
													Gayyy W	6895
b. Assist in the development of a statistical protocol for respiratory quantitative fit testing													Gayyy W	6896
													Gayyy W	6897
.01 Submit RFC for Statistical Consultant Contract				o									Gayyy W	6898
.02 Review bids					o								Gayyy W	6899
.03 Award Contract						o							Gayyy W	6900
.04 Site visits to monitor contract						o							Gayyy W	6901
.05 Receive progress reports						o							Gayyy W	6902
.06 Receive final report April, 1983													Gayyy W	6903
c. Develop statistical sampling strategies for asbestos and													Gayyy W	6904

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
another material			o			o							GayyyW	6905
d. Review research proposals by providing Executive Officer support for the Statistical Project Review Group (SPRG). Monitor and report quarterly on SPRG activities			o	o	o	o							GayyyW	6906
													GayyyW	6907
													GayyyW	6908
													GayyyW	6909
e. Arrange 4 peer interaction seminars or short courses			1	2	3	4							GayyyW	6910
f. Provide 36 consultation days to scientists as NIOSH statistician liaison			9	18	27	36							GayyyW	6911
													GayyyW	6912
g. Perform statistical reviews of 6 manuscripts													GayyyW	6913
													GayyyW	6914
.01 two for NIOSH scientists and contractors				1		2							GayyyW	6915
													GayyyW	6916
.02 Four for Archives of Environmental Health (as Consulting Editor			1	2	3	4							GayyyW	6917
													GayyyW	6918
.16 Maintain and update OSH Guidelines													GayyyW	6919
													GayyyW	6920
a. 20 new topics identified and work initiated			4	8	15	20							GayyyW	6921
													GayyyW	6922
b. 20 updates or completion of new topics to Guidelines			2	5	10	20							GayyyW	6923
c. Submit RFC for Guidelines Contract Work				o									GayyyW	6924
d. Award Contract					o								GayyyW	6925
													GayyyW	6926

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	TF $1000		
DIVISION OF TRAINING MANPOWER DEVELOPMENT													H W	6929
													H W	6930
10. Program Management and Support (A. Stevens 684-8221) (100/VUA-Wyy-762)(3.5/830/)	76	C					W	e	a				HHyyyW	6931
													HHyyyW	6932
													HHyyyW	6933
.1 Provide administration of Division Program and Projects													HHyyyW	6934
.a Finalize Program Plan for FY 82 and submit to OPPE			o										HHyyyW	6935
.b Conduct FY83 Planning													HHyyyW	6936
.1 Strategic Planning Session (NIOSH)			o										HHyyyW	6937
.2 Initial FY83 Program Planning (NIOSH)													HHyyyW	6938
a. Prepare and submit Program Concept Memo				o									HHyyyW	6939
b. Prepare and summit Project Concept Memo				o	o								HHyyyW	6940
c. Participate in Project Concept Review (NIOSH)					o								HHyyyW	6941
.3 FY83 Program Plan completed					o								HHyyyW	6942
.4 FY83 Project Plans completed						o							HHyyyW	6943
.c Program Progress Reporting													HHyyyW	6944
.1 4QFY81 Program Progress Report preparation and submission and review			o										HHyyyW	6945
													HHyyyW	6946
.2 1QFY82 Program Progress Report preparation, submission and review				o									HHyyyW	6947
													HHyyyW	6948
.3 2QFY82 Program Progress Report preparation, submission and review					o								HHyyyW	6949
													HHyyyW	6950
.4 3QFY82 Program Progress Report preparation submission and review						o							HHyyyW	6951
													HHyyyW	6952
.d Prepare and submit Annual Reports to Congress (OH&S Act and Mining Act)						o							HHyyyW	6953
													HHyyyW	6954
.2 Provide Personnel Management													HHyyyW	6955
.a Review Division Staffing, recruitment and staff development plans with EEO Officer					o								HHyyyW	6956
													HHyyyW	6957
.b Hold all hands meeting with Division Staff, one meeting to include NIOSH Director or his representative			1	2	3	4							HHyyyW	6958
													HHyyyW	6959
.c Arrange for job-related training for Division staff, including attendance at specialty field related meetings (for at least 50% staff)			3	7	12	15							HHyyyW	6960
													HHyyyW	6961
													HHyyyW	6962
.d Finalize Performance Plans (under Employee Performance Management System)				o									HHyyyW	6963
													HHyyyW	6964
.1 Conduct interim evaluations				o									HHyyyW	6965
.2 Conduct final evaluation (1QFY83)						o							HHyyyW	6966
.e Review and adopt or change current MPS Work Plans for Supervisors, to be used in FY82			o										HHyyyW	6967
													HHyyyW	6968
.1 Conduct interim evaluation				o									HHyyyW	6969
.2 Conduct final evaluation						o							HHyyyW	6970
.f Conduct rating and review and submit Commissioned Officer Efficiency Reports			o										HHyyyW	6971
													HHyyyW	6972
.e Prepare and submit Award Recommendations				o									HHyyyW	6973
.3 Coordination of DTMD Activities with and support for other													HHyyyW	6974

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000		
NIOSH O/D's													HHyyyW	6975
.a Review Criteria Documents and Profiles, manuscripts, reports, contract proposals, etc. for other O/D's			10	20	30	40							HHyyyW	6976
													HHyyyW	6977
.b Provide DTMD personnel for participation in Special Activities/Committees, etc. (HSRB, Long Term Training			2	5	8	10							HHyyyW	6978
													HHyyyW	6979
Committee, NIOSH Residency Committee, etc)													HHyyyW	6980
.4 Maintain Liaison with other Federal Agencies, Professional													HHyyyW	6981
Associations, Unions, Trade Associations, Academia													HHyyyW	6982
.a Monitor TVA IA; receive reports and advise OPPE/					o								HHyyyW	6983
Director NIOSH on maintenance/modification/termination													HHyyyW	6984
of agreement													HHyyyW	6985
.b Meet with OSHA Office of Training and Education to				1		2							HHyyyW	6986
coordinate training/education activities													HHyyyW	6987
.c Meet with MSHA to plan/review joint training/education				1		2							HHyyyW	6988
activities													HHyyyW	6989
.d Provide for assistance, development of joint projects etc.						o							HHyyyW	6990
with OSHA, BOM, EPA, GSA, etc.*													HHyyyW	6991
.5 Maintain Liaison with Foreign Nations													HHyyyW	6992
.a Receive visitors as scheduled by OD NIOSH (est. 6			o	o	o	o							HHyyyW	6993
visitors/delegations)													HHyyyW	6994
.b Arrange for exchange of training/education procedures,			o	o	o	o							HHyyyW	6995
materials etc.													HHyyyW	6996
.c Provide assistance, development of joint projects, etc.*													HHyyyW	6997
.6 Administer free funds allocations (K)													HHyyyW	6998
.a Office of the Director			7	13	19	26							HHyyyW	6999
.b Direct Training Branch			61	88	126	156							HHyyyW	7000
.c Curriculum Development Branch			108	215	306	355							HHyyyW	7001
.d Educational Resource Development			198	210	294	332							HHyyyW	7002
.e Training Grants					7M	7M							HHyyyW	7003
.f Total Free Funds			274	526	.745	7.86							HHyyyW	7004
													HHyyyW	7005
*This will be done on an "as requested" basis. No positive													HHyYyW	7006
action will be taken by DTMD, response will be made as													HHyyyW	7007
approprite, eg. as required by OD, NIOSH													HHyyyW	7008
													HHyyyW	7009
OFFICE OF ADMINISTRATIVE AND MANAGEMENT SERVICES													J W	7011
													J W	7012
11. Administrative Services Branch-Rockville (M.Cramer,443-1646)	81	81					W	c	a				JayyyW	7013
(VGC-vXX-042)(100/VGC-vXX-042)(VGC-vXX-052)													JayyyW	7014
(100/VGC-vXX-052)													JayyyW	7015
													JayyyW	7016
12. Administrative Services Branch-Cincinnati	81	81					W	c	a				JayyyW	7017
(A. Hollmeyer, 684-8236)													JayyyW	7018
(VGD-vXX-043)(100-VGD-vXX-043)(VGD-vXX-053)													JayyyW	7019
(100/VGD-vXX-053)													JayyyW	7020
													JayyyW	7021

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
13. Administrative Services Branch-Morgantown	81	81					W	c	a				JayyyW	7022
(C.Dalton, 923-7126)													JayyyW	7023
(VGB-vXX-054)(100/VGB-vXX-054)(VGB-vXX-055)													JayyyW	7024
(100/VGB-vXX-055)(VGB-vXX-056)(100/VGB-vXX-056)													JayyyW	7025
(VGB-vXX-057)(100/VGB-vXX-057)(VGB-vXX-058)													JayyyW	7026
(100/VGB-vXX-058)													JayyyW	7027
													JayyyW	7028
14. Financial Management Branch-Rockville (D.Boyd,443-1518)	81	81					W	c	a				JbyyyW	7029
(VGE-vXX-036)(100/VGE-vXX-035)(VGE-vXX-035)													JbyyyW	7030
(100/VGE-vXX-036)													JbyyyW	7031
													JbyyyW	7032
15. Financial Management Branch-Cincinnati	81	81					W	c	a				JbyyyW	7033
R. Scheve, 684-8277													JbyyyW	7034
(VGE-vXX-037)(100/VGE-vXX-037)													JbyyyW	7035
													JbyyyW	7036
16. TAPS (D.Boyd, 443-1518)	81	81					W	c	a				JbyyyW	7037
(VGE-vXX-038)(100/VGE-vXX-038)													JbyyyW	7038
(VGE-vXX-032)(100/VGE-vXX-032)													JbyyyW	7039
													JbyyyW	7040
17. Management Systems, ADP-Cincinnati (L. Catlett)	81	81					W	c	a				JcyyyW	7041
(VGP-vXX-048)													JcyyyW	7042
													JcyyyW	7043
18. Management Systems Branch (P.Bengtson,443-3227)	81	81					W	c	a				JcyyyW	7044
(VGP-vXX-044)(100/VGP-vXX-044)(VGP-vXX-049)													JcyyyW	7045
(100/VGP-vXX-049)(VGPvXX-050)(100/VGP-vXX-050)													JcyyyW	7046
(VGP-vXX-048)(100/VGP-vXX-048)													JcyyyW	7047
													JcyyyW	7048
19. Procurement, Grants & Property Management	81	81					W	c	a				JdyyyW	7049
(M. Stitely, 443-3440)													JdyyyW	7050
(VGJ-vXX-039)(100/VGJ-vXX-039)													JdyyyW	7051
(VGJ-vXX-060)(100/VGJ-vXX-060)													JdyyyW	7052
													JdyyyW	7053
20. Office of the Director, OAMS (R. Coene, 443-1697)	81	81					W	c	a				JJyyyW	7054
(VGA-vXX-033)(100/VGA-vXX-033)													JJyyyW	7055
													JJyyyW	7056
21. Internal Safety Management (J. Dixon, 684-8391)	81	81					W	c	a				JJyyyW	7057
(VGA-vXX-034)(100/VGA-vXX-034)													JJyyyW	7058
													JJyyyW	7059
OFFICE OF THE DIRECTOR													K W	7060
													K W	7061
22. Institute Policy (R. Coene, 443-1530)	81	81					W	c	a				KKyyyW	7062
(VAA-vXX-003)(100/VAA-vXX-003)(VAA-vXX-002)													KKyyyW	7063
(100/VAA-vXX-002)(VAA-aXk-010)(100/VAA-aXk-010)													KKyyyW	7064
(VAA-vXX-006)(100/VAA-vXX-006)(VAA-aBd-009)													KKyyyW	7065
(100/VAA-aBd-009)(VAA-vXX-012)(100/VAA-vXX-012)													KKyyyW	7066
													KKyyyW	7067

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
23. Equal Employment Opportunity (M.Bell, 443-3744)	81	81					W	c	a				KKyyyW	7068
(VAA-vXX-004)(100/VAA-vXX-004)													KKyyyW	7069
													KKyyyW	7070
24. Long Term Training (F. Dense)	81	81					W	c	a				KKyyyW	7071
(VAA-vXX-002)													KKyyyW	7072
													KKyyyW	7073
25. Labor Liaison Activities (R. Dobbin)	81	81					W	c	a				KKyyyW	7074
(VAA-vXX-006)													KKyyyW	7075
													KKyyyW	7076
26. Facilities Planning and Engineering Services (J. Coble)	81	81					W	c	a				KKyyyW	7077
(VAA-vXX-012)(100/VAA-vXX-012)													KKyyyW	7078
													KKyyyW	7079
OFFICE OF PROGRAM PLANNING AND EVALUATION													L W	7080
													L W	7081
27. Planning (S. Fishman, 443-6467)	71	C					W	c	a				LayyyW	7083
(VEA-100-022) (100/VEA-Wyy-022)													LayyyW	7084
													LayyyW	7085
.1 Complete final tasks for FY1983 budget													LayyyW	7086
a. Submit to Director OPPE a briefing			o										LayyyW	7087
for OMB hearing on FY1983 budget (Oct)													LayyyW	7088
b. Develop budget overview and assist OAMS in developing				o									LayyyW	7089
Congressional Submission (Jan) and in developing a													LayyyW	7090
briefing book for Congressionalhearings on FY1983													LayyyW	7091
budget (Feb)													LayyyW	7092
.2 Complete NIOSH Program Plan for FY1982													LayyyW	7093
a. Submit final plan to Director, OPPE			o										LayyyW	7094
b. Submit publication plan to Communications Committee for			o										LayyyW	7095
FY1982 Program Plan (Nov)													LayyyW	7096
.3 Develop policies for FY1984 budget request													LayyyW	7097
a. Submit background papers for FY1984 budget to				o									LayyyW	7098
Director OPPE (Jan)													LayyyW	7099
b. Submit to OAMS approved policies for request to CDC (Feb)				o									LayyyW	7100
.4 Develop NIOSH Program Plan for FY1983													LayyyW	7101
a. Submit to Director OPPE a review of Division Program				o									LayyyW	7102
Memoranda (Feb)													LayyyW	7103
b. Submit proposed program guidance for FY1983 to					o								LayyyW	7104
Director OPPE (April)													LayyyW	7105
c. Submit to Director OPPE a review of project concept					o								LayyyW	7106
memoranda (June)													LayyyW	7107
d. Submit to Director OPPE a review of project plans (Sept)						o							LayyyW	7108
.5 Submit to OAMS an update manpower management system (Jan)				o									LayyyW	7109
.6 Special Assignments (e.g. 1980 objectives, health research			1	2	3	4							LayyyW	7110
principles, health research priorities)													LayyyW	7111
													LayyyW	7112

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MEC H	FUN D	RESOURCES PY	NPF $1000	TF $1000		
28. Evaluation (A. Pezaro, 443-4366) (VEA-vXy-023) (100/VEA-Wyy-023)	71	C					W	c	a				LbyyyW	7115
													LbyyyW	7116
													LbyyyW	7117
.1 Prepare quarterly program analysis			o	o	o	o							LbyyyW	7118
.2 Interagency agreements													LbyyyW	7119
a. Number received			10	25	40	50							LbyyyW	7120
b. Percent processed within 10 workdays			90	90	90	90							LbyyyW	7121
.3 FRA clearances													LbyyyW	7122
a. Number received from Divisions			3	6	9	12							LbyyyW	7123
b. Percent forwarded to CDC within 10 workdays			100	100	100	100							LbyyyW	7124
c. Report to Director, OPPE on those in process			1	2	3	4							LbyyyW	7125
d. Submit information collection budget to OMB				o									LbyyyW	7126
e. Submit report to CDC on use of NIOSH generic clearances						o							LbyyyW	7127
f. Respond to information requests from CDC on OMB activities			4	8	12	16							LbyyyW	7128
.4 Unsolicited Proposals													LbyyyW	7129
a. Number received			10	20	30	40							LbyyyW	7130
b. Percent reviewed and summarized within 45 days			90	90	90	90							LbyyyW	7131
.5 Evaluations													LbyyyW	7132
a. Surveillance													LbyyyW	7133
.1 Submit protocol to Director, OPPE			o										LbyyyW	7134
.2 Initiate data collection				o									LbyyyW	7135
.3 Complete data collection					o								LbyyyW	7136
.4 Complete data analysis					o								LbyyyW	7137
.5 Submit draft final report to Director, OPPE					o								LbyyyW	7138
.6 Submit final report to Director, NIOSH						o							LbyyyW	7139
b. Control Technology Assessment													LbyyyW	7140
.1 Submit protocol to Director, OPPE				o									LbyyyW	7141
.2 Initiate data collection					o								LbyyyW	7142
.3 Complete data collection						o							LbyyyW	7143
.4 Complete data analysis						o							LbyyyW	7144
.5 Submit draft final report to Director, OPPE						o							LbyyyW	7145
.6 Submit final report to Director, NIOSH						o							LbyyyW	7146
c. Evaluation of NIOSH Impact on Workers													LbyyyW	7147
.1 Submit RFC to OAMS			o		o								LbyyyW	7148
.2 Award contract (CDC)					o								LbyyyW	7149
.3 Monitor contract				o		o							LbyyyW	7150
.4 Review draft of final report (3Q83)													LbyyyW	7151
.5 Transmit final report to Director, NIOSH and make appropriate recommendation (4Q83)													LbyyyW	7152
													LbyyyW	7153
.6 Complete peer-review evaluation						o							LbyyyW	7154
.7 Complete special projects assigned by Director, OPPE			o	o	o	o							LbyyyW	7155
.8 Tracking													LbyyyW	7156
a. Institute's final reports			1	2	3	4							LbyyyW	7157
b. Action items developed at NIOSH/OSHA meeting in 1Q			o	o	o	o							LbyyyW	7158
c. Accuracy of administrative services projects			o	o	o	o							LbyyyW	7159
d. Institute's manuscript submission			o	o	o	o							LbyyyW	7160

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
e. Action items developed at NIOSH/MSHA/BOM meeting in 2Q					o	o							LbyyyW	7161
f. Program milestones generated by GAO reports on HHE and cancer programs			o	o	o	o							LbyyyW	7162
													LbyyyW	7163
g. HHE and ERC milestones for CDC's PED's system													LbyyyW	7164
h. OMS tracking of HHE program milestones (CDC/ASPE)			o	o	o	o							LbyyyW	7165
i. Action items developed for Divisions during quarterly review			o	o	o	o							LbyyyW	7166
													LbyyyW	7167
j. Review all RFC submissions			o	o	o	o							LbyyyW	7168
													LbyyyW	7169
29. Office Management OPPE (M. Myers, 443-4364) (VEA-vXy-025) (100/VEA-Wyy-025)	80	C					W	c	a				LLyyyW	7172
													LLyyyW	7173
													LLyyyW	7174
.1 Review training plans for office employees				o	o	o							LLyyyW	7175
.2 Complete Commissioned Officer Evaluations			2	2	2	2							LLyyyW	7176
.3 Complete Merit Pay Plans			0	3	3	3							LLyyyW	7177
.4 Complete Merit Pay evaluations				o	o	o							LLyyyW	7178
.5 Complete Civil Service evaluations					o	o							LLyyyW	7179
.6 Accumulated Spending of Non-personnel funds by Branch			30.9	106	170	226							LLyyyW	7180
a. Office Management			11.8	35.2	49.3	56.2							LLyyyW	7181
b. Planning and Program Development			11.8	20.3	25.9	30							LLyyyW	7182
c. Evaluation and Control			7.3	60.4	94.7	140							LLyyyW	7183
.7 Accumulated Use of Full-Time Equivalents			6.0	9.0	13.0	17.0							LLyyyW	7184
a. Permanent full-time			3.0	6.0	8.0	10.0							LLyyyW	7185
.8 Meet Office milestones (percent)													LLyyyW	7186
a. Planning and Program Development			50	50	50	50							LLyyyW	7187
b. Evaluation and Control			50	50	50	50							LLyyyW	7188
													LLyyyW	7189

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ALL OTHER PROGRAM AREAS

Office of Extramural Coordination and Special Projects

Research and Demonstration Grants--This OECSP program area, by the very nature of the grants program which cuts across all the OSH field, does not break out into a single program area. Priorities had been set earlier for grants in the OSH areas of reproductive effects and occupational skin diseases. Other efforts had been considered in the areas of mining, respiratory protection, and delivery of OSH services through health maintenance organizations (occupational health and medical care), but announcements have been held up because of restrictions in funding. Announcements under consideration and in various stages of development are the areas of center grants (program project grants), training new investigators, support for Ph.D.-thesis students, support for conferences with other Federal agencies and professional organizations, cardiovascular disease studies, curriculum development for schools of engineering (including chemical), ergonomics, registry of occupational lung diseases, and a textbook on differential diagnosis of occupationally related diseases.

It is expected that OECSP will be able to expand its promotion of interest in occupational health among physicians through recent increased working relationships with the American Academy of Preventive Medicine which will provide OECSP with the results of their recent survey of physicians who practice preventive medicine, occupational medicine in particular.

Needs for Expansion--Efforts toward expansion of several of OECSP's ongoing acitivites that have indicated this need include: additional resources for research grants; liaison and information exchange with other Federal agencies (recent Presidential Executive Order); involvement, bilaterally and multilaterally, in international programs; strategies to increase involvement of traditional health care providers in delivery of OSH services; participation in conferences on subjects that have had limited attention, such as human subjects review; dissemination of information and technical assistance to the private sector; and investigation of potential resources, governmental and private sector, in support of NIOSH research and demonstration efforts.

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
*******ALL OTHER*******													X	7193
													X	7194
DIVISION OF BIOMEDICAL AND BEHAVIORAL SCIENCE													A X	7195
													A X	7196
1. Diagnostic & Research Pathology Services (D. Groth, 684-8361) (100/VOT-Xyy-386)	82	C					X	c	a				AdyyyX	7198
													AdyyyX	7199
													AdyyyX	7200
.1 Complete SOPs for common methods			o										AdyyyX	7201
													AdyyyX	7202
.2 Perform animal autopsies (approx. 300/Q)			o	o	o	o							AdyyyX	7203
													AdyyyX	7204
.3 Prepare histopathology slides (approx. 3400/Q)			o	o	o	o							AdyyyX	7205
													AdyyyX	7206
.4 Prepare tissue sections for electron microscopy (approx. 150/Q)			o	o	o	o							AdyyyX	7207
													AdyyyX	7208
													AdyyyX	7209
.5 Perform hematology tests (approx. 125/Q)			o	o	o	o							AdyyyX	7210
.6 Submit progress reports to Director, DBBS			o	o	o	o							AdyyyX	7211
.7 Submit final project report to Director, DBBS						o							AdyyyX	7212
.8 Submit abstract to Director, NIOSH						o							AdyyyX	7213
													AdyyyX	7214
2. Particulate and Tissue Analysis Support (L. Stettler, 684-8337) (100/VOT-Xyy-387)	82	C					X	b	a				AdyyyX	7217
													AdyyyX	7218
													AdyyyX	7219
.1 Submit progress report to Director, DBBS			o	o	o	o							AdyyyX	7220
.2 Submit RFC to OAMS (trace elemental analysis)			o										AdyyyX	7221
.3 Award contract						o							AdyyyX	7222
.4 Complete microprobe analyses of 85% of samples per quarter (4000/Q)			o	o	o	o							AdyyyX	7223
													AdyyyX	7224
.5 Complete particle size analyses of 85% of samples per quarter (25/Q)			o	o	o	o							AdyyyX	7225
													AdyyyX	7226
.6 Complete EM evaluation of tissue sections, 85% per quarter (25/Q)			o	o	o	o							AdyyyX	7227
													AdyyyX	7228
.7 Submit final report to Director, DBBS						o							AdyyyX	7229
.8 Submit abstract to Director, NIOSH						o							AdyyyX	7230
													AdyyyX	7231

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	PLANNED 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
3. Animal Husbandry Support Service (J. Lal, 684-8360) (100/VOT-Xyy-385)	81	C					X	c	a				AdyyyX	7234
													AdyyyX	7235
													AdyyyX	7236
.1 Develop hazard data sheet (H.D.S) (1Q81)													AdyyyX	7237
.2 Submit H.D.S. to Director, DBBS (1Q81)													AdyyyX	7238
.3 Submit H.D.S. to all project staff (1Q81)													AdyyyX	7239
.4 Develop RFC (1Q81)													AdyyyX	7240
.5 Complete peer review process (2Q81)													AdyyyX	7241
.6 Submit RFC to Director, DBBS (2Q81)													AdyyyX	7242
.7 Submit RFC to OAMS (2Q81)													AdyyyX	7243
.8 Submit progress reports to Director, DBBS			o	o	o	o							AdyyyX	7244
.9 Award contract				o									AdyyyX	7245
.10 Perform animal husbandry services and contract management			o	o	o	o							AdyyyX	7246
.11 Provide supplemental training of animal caretakers and DBBS staff			o	o	o	o							AdyyyX	7247
													AdyyyX	7248
.12 Submit final project report to Director, DBBS						o							AdyyyX	7249
.13 Submit abstract to Director, NIOSH						o							AdyyyX	7250
													AdyyyX	7251

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
4. Inhalation Toxicology Service and Research (A. Khan, 684-8356) (100/VOT-Xyy-379)	82	C					X	b	a				AdyyyX	7254
													AdyyyX	7255
													AdyyyX	7256
.1 Award service contract (RFC 210-81-6108-DR)			o										AdyyyX	7257
.2 Complete development of Standard Operating Procedures			o										AdyyyX	7258
.3 Comparative Cardiac Toxicity of Inhaled Amines (VOO 339)													AdyyyX	7259
a. Initiate 90-day exposures:													AdyyyX	7260
(1) Allylamine			o										AdyyyX	7261
(2) Triethylamine			o										AdyyyX	7262
b. Complete exposures:													AdyyyX	7263
(1) Allylamine			o										AdyyyX	7264
(2) Triethylamine			o										AdyyyX	7265
c. Complete pilot study:													AdyyyX	7266
(1) Amine #3			o										AdyyyX	7267
(2) Amine #4			o										AdyyyX	7268
d. Initiate 90-day exposures:													AdyyyX	7269
(1) Amine #3					o								AdyyyX	7270
(2) Amine #4					o								AdyyyX	7271
e. Complete 90-day exposures:													AdyyyX	7272
(1) Amine #3						o							AdyyyX	7273
(2) Amine #4						o							AdyyyX	7274
.4 Pulmonary Hypersensitivity of Industrial Metals (VOT 329)													AdyyyX	7275
a. Complete pilot study:													AdyyyX	7276
(1) Platinum				o									AdyyyX	7277
(2) Chlorine				o									AdyyyX	7278
b. Initiate subchronic exposures:													AdyyyX	7279
(1) Platinum				o									AdyyyX	7280
(2) Chlorine				o									AdyyyX	7281
c. Complete exposures:													AdyyyX	7282
(1) Platinum					o								AdyyyX	7283
(2) Chlorine					o								AdyyyX	7284
d. Complete pilot study:													AdyyyX	7285
(1) Vandium						o							AdyyyX	7286
(2) Ozone						o							AdyyyX	7287
e. Initiate subchronic exposures:													AdyyyX	7288
(1) Vanadium						o							AdyyyX	7289
(2) Ozone						o							AdyyyX	7290
f. Complete exposures:													AdyyyX	7291
(1) Vanadium (2Q83)													AdyyyX	7292
(2) Ozone (2Q83)													AdyyyX	7293
.5 Emergency Toxicologic Assessment (VOO)													AdyyyX	7294
a. Chemical I:													AdyyyX	7295
(1) Complete pilot study			o										AdyyyX	7296
(2) Complete repeated dose study				o									AdyyyX	7297
(3) Initiate 90-day exposures				o									AdyyyX	7298
(4) Complete 90-day study					o								AdyyyX	7299

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	RESOURCES PY	NPF $1000	TF $1000		
b. Chemical II:													AdyyyX	7300
(1) Complete pilot study					o								AdyyyX	7301
(2) Complete repeated dose study					o								AdyyyX	7302
(3) Initiate 90-day exposures					o								AdyyyX	7303
(4) Complete 90-day study.						o							AdyyyX	7304
.6 Initiate automation program for inhalation toxicology facility.													AdyyyX	7305
													AdyyyX	7306
a. Chronic inhalation laboratory				o									AdyyyX	7307
b. High Hazard Inhalation laboratory					o								AdyyyX	7308
c. Acute inhalation laboratory					o								AdyyyX	7309
.7 Complete training of inhalation toxicology personnel			o	o	o	o							AdyyyX	7310
.8 Submit progress reports to OD, DBBS			o	o	o	o							AdyyyX	7311
.9 Submit final project report to OD, DBBS						o							AdyyyX	7312
.10 Submit abstract to Director, NIOSH						o							AdyyyX	7313
													AdyyyX	7314
DIVISION OF RESPIRATORY DISEASE STUDIES													C X	7316
													C X	7317
5. Task Order Medical Services Contract	81	C					X	a	b				CamyyX	7319
(Spransy G 304-599-7387) (VKL-bDX-182)(100/VCa-Xmy-182)													CamyyX	7320
													CamyyX	7321
.1 Initiate task order for medical support services in													CamyyX	7322
support of Division field cohort studies			1	3	5	7							CamyyX	7323
.2 Receive survey data and monitor tasks			o	o	o	o							CamyyX	7324
													CamyyX	7325
6. Animal & Exposure Facility-Support	81	C					X	b	a				CddgyX	7328
(Major P 304-599-7256) (VKC-cDd-123)(100/VCd-Xdg-123)													CddgyX	7329
													CddgyX	7330
.1 Order equipment for inhalation facility			o										CddgyX	7331
.2 Install equipment for inhalation facility					o								CddgyX	7332
.3 Calibrate equipment for inhalation facility						o							CddgyX	7333
.4 Monitor support contract, FY81/82				o	o	o							CddgyX	7334
.5 Monitor support (1,2,3,4Q83)													CddgyX	7335
.6 Monitor support contract (1,2,3,4Q84)													CddgyX	7336
													CddgyX	7337
7. Computer Support	70	C					X	b	b				CemnyX	7340
(Boyce L 304-599-7306) (VKQ-uDX-232)(100/VCe-Xmm-232)													CemnyX	7341
													CemnyX	7342
.1 Process medical exam data			o	o	o	o							CemnyX	7343
.2 Programming HHE's			o	o	o	o							CemnyX	7344
.3 Programming research			o	o	o	o							CemnyX	7345
.4 Data entry			o	o	o	o							CemnyX	7346
													CemnyX	7347

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED COMPLETION 1Q	2Q	3Q	4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000			
DIVISION OF SURVEILLANCE, HAZARD EVALUATIONS AND FIELD STUDIES													D	X	7350
													D	X	7351
8. Biological Hazards in the Workplace (Larry Elliott 513-684-2876) (100/VMH-Xdd-575)	81	82					X	c	a				Dbdd	dX	7352
													Dbdd	dX	7353
													Dbdd	dX	7354
													Dbdd	dX	7355
													Dbdd	dX	7356
A. Initiate walk-through surveys (1Q81).													Dbdd	dX	7357
B. Complete walk-through surveys.				o									Dbdd	dX	7358
C. Complete industrial hygiene reports.					o								Dbdd	dX	7359
D. Complete final report and transmit abstract to Director, NIOSH and copy to DTS.						o							Dbdd	dX	7360
													Dbdd	dX	7361

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	2Q	COMPLETION 3Q	4Q	PROG	MECH	FUND	PY	RESOURCES NPF $1000	RESOURCES TF $1000		
OFFICE OF EXTRAMURAL COORDINATION AND SPECIAL PROJECTS													F	X 7364
													F	X 7365
9. Research and Demonstration Grants (Moshell, 443-4493)	71	C					X	e	a				FayyyX	7366
(VCE-tXy-875) (0/2.2/2.2) (100/VCE-Xyy-875)													FayyyX	7367
(VCE-tXy-874) (9/0.115/0.375) (100/VCE-Xyy-874)													FayyyX	7368
													FayyyX	7369
.1 Program Development													FayyyX	7370
a. Develop a research program project grants effort													FayyyX	7371
.01 Develop a request for applications for approval by Director, NIOSH and CDC			o										FayyyX	7372
													FayyyX	7373
.02 Publish and distribute announcement				o									FayyyX	7374
.03 Receive and acknowledge letters of intent from potential applicants responses to inquiries					o								FayyyX	7375
													FayyyX	7376
.04 Develop a review panel for applications and make arrangements for meeting					o								FayyyX	7377
													FayyyX	7378
.05 Site visit applicants					o								FayyyX	7379
.06 Conduct review meeting					o								FayyyX	7380
.07 Conduct secondary review of approvals						o							FayyyX	7381
.08 Prepare funding recommendation packages						o							FayyyX	7382
b. Publish and distribute FY 1981 annual report for information/public relations													FayyyX	7383
													FayyyX	7384
.01 Update summaries for continuations with input from Technical Advisors			o										FayyyX	7385
													FayyyX	7386
.02 Prepare summaries of new FY 1981 awards			o										FayyyX	7387
.03 Prepare program summary information			o										FayyyX	7388
.04 Develop final camera ready copy and gain approval to publish			o										FayyyX	7389
													FayyyX	7390
.05 Publish and distribute				o									FayyyX	7391
.2 Program Monitoring and Evaluation													FayyyX	7392
a. Training and Orientation for TAs													FayyyX	7393
.01 Conduct training sessions for NIOSH Technical Advisors in Cincinnati			o	o	o								FayyyX	7394
													FayyyX	7395
.02 Develop final draft of Technical Advisor's handbooks			o										FayyyX	7396
.03 Publish and distribute TA handbook			o										FayyyX	7397
b. Renewals and Extension Requests for non-competitive grants													FayyyX	7398
													FayyyX	7399
.01 Number of reviews of progress reports coordinated with TAs			1	4	10	21							FayyyX	7400
													FayyyX	7401
.02 Number of requests for time extensions reviewed				3		7							FayyyX	7402
.03 Number of type 5 justifications prepared			1	4	10	21							FayyyX	7403
c. Prepare project summaries and accomplishments													FayyyX	7404
.01 Number of final reports received			10		15	30							FayyyX	7405
.02 Number of project accomplishment summaries coordinated with grantee and TA				10	21								FayyyX	7406
													FayyyX	7407
.03 Number of project summaries prepared				10	21	23							FayyyX	7408
.3 Grant Application Review and Funding													FayyyX	7409

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PROJECT OBJECTIVE DESCRIPTION - MILESTONES - PROJECT OFFICER	FY I	FY C	PLANNED 1Q	COMPLETION 2Q	COMPLETION 3Q	COMPLETION 4Q	PROG	MECH	FUND	RESOURCES PY	RESOURCES NPF $1000	RESOURCES TF $1000		
a. Conduct secondary review process			o										FayyyX	7410
.01 Prepare packages and conduct secondary review			o	o	o								FayyyX	7411
.02 Prepare funding packages for Types 1 & 2			o	o		o							FayyyX	7412
b. Safety and Occupational Health Study Section													FayyyX	7413
.01 Percent grant applications received and sent to reviewers 2 months prior to meeting			100	100	100								FayyyX	7414
													FayyyX	7415
.02 Hold Study Section meetings			o	o	o								FayyyX	7416
.03 Research and demonstration grant applications reviewed			60	70	55								FayyyX	7417
													FayyyX	7418
.04 Training grant applications reviewed			2	4	1								FayyyX	7419
.05 Grant applications approved (percent)													FayyyX	7420
- Research and Demonstration			25	25	25								FayyyX	7421
- Training			30	30	30								FayyyX	7422
- Total			25	25	25								FayyyX	7423
.06 Percent summary statements completed for printing within 30 days (December 30)				75	75	100							FayyyX	7424
													FayyyX	7425
c. Review of ERC applications													FayyyX	7426
.01 Develop review procedures and panel of reviewers			o										FayyyX	7427
.02 Publish request for applications			o										FayyyX	7428
.03 Number of letters of intent received				30									FayyyX	7429
.04 Number of applications received					20								FayyyX	7430
.05 Hold pre-review Study Section meeting					o								FayyyX	7431
.06 Conduct site visits						30							FayyyX	7432
.07 Conduct Study Section review of applications						o							FayyyX	7433
d. Finalize ad hoc reviewers roster				o									FayyyX	7434
e. Update Study Section membership													FayyyX	7435
.01 Complete and publish Study Section members handbook			o										FayyyX	7436
.02 Orient new members			o										FayyyX	7437
.03 Prepare and receive Institute clearance for nomination packages for seven new members					o								FayyyX	7438
													FayyyX	7439
f. Submit I.A. with NIH to OPPE for DRB Processing and Review Support Services			o										FayyyX	7440
													FayyyX	7441
g. Submit appropriate grants for HSRB review prior to funding decisions			o	o	o								FayyyX	7442
													FayyyX	7443
.4 Program Management													FayyyX	7444
a. Develop strategies for expanding research grant dollars through cooperation with other agencies/organizations				o									FayyyX	7445
													FayyyX	7446
													FayyyX	7447

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